



STAR GRACE CHEMICAL (Dalian) Co., LTD

No.1A-4-506, Software Park Road, High-Tech Park, Dalian City, Liaoning Province, China

Tax ID: 91210231MAC7QPJG78

Zip Code: 116021 TEL: +86-411-3904-9790

Material Safety Data Sheet

L-Lysine HCL 98.5% (Feed Grade)

Section 1: Chemical Product and Company Identification

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

L-(+)-2,6-Diaminohexanoic acid hydrochloride

CAS No.: 657-27-2

Molecular Weight: 182.65

Chemical Formula: $C_6H_{14}N_2O_2 \cdot HCl$

Company Information:

Heilongjiang Wanlirunda Group Co., Ltd.

ADD NO.1A-4-506, SOFTWARE PARK ROAD, HIGH-TECH
PARK, DALIAN, CITY, LIAONING PROVINCE, CHINA

Section 2: Composition/Information on Ingredients

CAS#	Chemical Name	Percent	EINECS/ELINCS
657-27-2	L-(+)-Lysine monohydrochloride	≥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



STAR GRACE CHEMICAL (Dalian) Co., LTD

No.1A-4-506, Software Park Road, High-Tech Park, Dalian City, Liaoning Province, China

Tax ID: 91210231MAC7QPJG78

Zip Code: 116021 TEL: +86-411-3904-9790

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 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 chemical foam.
FlashPoint: 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.



STAR GRACE CHEMICAL (Dalian) Co., LTD

No.1A-4-506, Software Park Road, High-Tech Park, Dalian City, Liaoning Province, China

Tax ID: 91210231MAC7QPJG78

Zip Code: 116021 TEL: +86-411-3904-9790

Section8: ExposureControls,PersonalProtection

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

Exposure Limits

ChemicalName	ACGIH	NIOSH	OSHA - Final PELs
L-(+)-Lysine monohydrochloride	nonelisted	nonelisted	nonelisted

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. Not available.

Vapor Pressure:

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



STAR GRACE CHEMICAL (Dalian) Co., LTD

No.1A-4-506, Software Park Road, High-Tech Park, Dalian City, Liaoning Province, China

Tax ID: 91210231MAC7QPJG78

Zip Code: 116021 TEL: +86-411-3904-9790

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



STAR GRACE CHEMICAL (Dalian) Co., LTD

No.1A-4-506, Software Park Road, High-Tech Park, Dalian City, Liaoning Province, China

Tax ID: 91210231MAC7QPJG78

Zip Code: 116021 TEL: +86-411-3904-9790

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

Section 15: 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



STAR GRACE CHEMICAL (Dalian) Co., LTD

No.1A-4-506, Software Park Road, High-Tech Park, Dalian City, Liaoning Province, China

Tax ID: 91210231MAC7QPJG78

Zip Code: 116021 TEL: +86-411-3904-9790

CWA. None of the chemicals in this product are listed as Priority Pollutants under the CWA.

None of the chemicals in this product are listed as Toxic Pollutants under the 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:

May. 11. 2020

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



STAR GRACE CHEMICAL (Dalian) Co., LTD

No.1A-4-506, Software Park Road, High-Tech Park, Dalian City, Liaoning Province, China

Tax ID: 91210231MAC7QPJG78

Zip Code: 116021 TEL: +86-411-3904-9790

Disclaimer: STAR GRACE CHEMICAL (Dalian)Co., LTD provides the information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product. Individuals receiving the information must exercise their independent judgment in determining its appropriateness for a particular purpose.

MAKES NO REPRESENTATIONS OR WARRANTIES, EITHER EXPRESS OR IMPLIED, INCLUDING WITHOUT LIMITATION ANY WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE WITH RESPECT TO THE INFORMATION SET FORTH HEREIN OR THE PRODUCT TO WHICH THE INFORMATION REFERS. ACCORDINGLY,

WILL NOT BE RESPONSIBLE FOR DAMAGES RESULTING FROM USE OF OR RELIANCE UPON THIS INFORMATION.
