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## Material Safety Data Sheet

L-Lysine Mono Hcl

### SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

**MSDS Name:** L- LYSINE MONO HCL

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

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

**Company Identification:** Hebei Changhao Biotechnology Co., Ltd.

East of Yueliang Village, Jizhou Town, Jizhou District , Hengshui  
City, Hebei Province, China

**For information, call:** 0086-318-8696108

**Date:** Jan 12, 2017

### SECTION 2 - COMPOSITION, INFORMATION ON INGREDIENTS

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

**Hazard Symbols:** None listed

**Risk Phrases:** None listed

### 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.

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 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 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.

## 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:  
Specific Gravity/Density:  
Molecular Formula:  
Molecular Weight:

## SECTION 10 - STABILITY AND REACTIVITY

### 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.

## 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

IATA

Not regulated as a hazardous material.

IMO

Not regulated as a hazardous material.

RID/ADR

Not regulated as a hazardous material.

## SECTION 15 - 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 - ADDITIONAL INFORMATION

**MSDS Creation Date:** 1/12/2017 Revision #0 Date: Original.

The information above is believed to be accurate and represents the best