



宁夏伊品生物科技股份有限公司  
NINGXIA EPPEN BIOTECH CO., LTD.

# MATERIAL SAFETY DATA SHEET

## L-LYSINE MONOHYDROCHLORIDE 98.5%

### 1. Product Identification

**Product Name:** L-LYSINE MONOHYDROCHLORIDE 98.5%  
**Brand Name:** EPPEN since 2004  
**Original Label:**EPPEN  
**Registration No.:** 6400FA003  
**Manufacturer :**NINGXIA EPPEN BIOTECH CO., LTD.  
**Address:**YANGHE INDUSTRY GARDEN, YONGNING COUNTY, NINGXIA, CHINA.  
**Tel:**+86 951 8026266  
**Fax:**+86 951 8026267

### 2. Composition/Information on Ingredients

CAS#	Chemical Name	Percent	EINECS/ELINCS
657-27-2	L-(+)-L-LYSINE MONOHYDROCHLORIDE	98.5+%	211-519-9

**Hazard Symbols:** None listed.

**Risk Phrases:** None listed.

### 3. Hazards Identification

#### EMERGENCY OVERVIEW

**Physical Presentation:** light yellow granule. The toxicological properties of this material have not been fully investigated.

**Target Organs:** None known.

#### Potential Health Effects

**ADD:** YANGHE INDUSTRY GARDEN, YONGNING, NINGXIA, CHINA 750100  
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**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.

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## 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.

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## 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.

**Flash Point:** Not applicable.

**Autoignition Temperature:** Not applicable.

**Explosion Limits, Lower:** Not available.

**Upper:** Not available.

**NFPA Rating:** Not published.

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## 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.

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## 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.

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## 8. Exposure Controls, Personal Protection

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

**Exposure Limits**

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Chemical Name	ACGIH	NIOSH	OSHA - Final PELs
L-(+)-Lysine monohydrochloride	none listed	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.

## 9. Physical and Chemical Properties

**Physical State:** granule

**Appearance:** light yellow

**Odor:** Practically odorless.

**pH:** 5.72(100g/l H<sub>2</sub>O 20 °C)

**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

**Decomposition Temperature:**> 240 deg C

**Solubility:** Soluble in water: 649.5 g/l (20 °C)

**Specific Gravity/Density:**Not available.

**Molecular Formula:**C<sub>6</sub>H<sub>14</sub>N<sub>2</sub>O<sub>2</sub> . HCl

**Molecular Weight:**182.65

## 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.

## 11. Toxicological Information

**RTECS#:**

**CAS# 657-27-2:** OL5650000

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**LD50/LC50:**

CAS# 657-27-2:

Oral, rat: LD50 = 10 gm/kg;<BR.

**Carcinogenicity:**

CAS# 657-27-2: Not listed by ACGIH, IARC, NIOSH, NTP, or OSHA.

## 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.

## 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.

## 14. Transport Information

	US DOT	IATA	RID/ADR	IMO	Canada TDG
<b>Shipping Name:</b>	No information available.			NOT REGULATED BY IMDG/IMO	No information available.
<b>Hazard Class:</b>					
<b>UN Number:</b>					
<b>Packing Group:</b>					

## 15. Regulatory Information

### US FEDERAL

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**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. 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

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**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**

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## 16. Other Information

**Product Use:** feedstuff

**Revision Information:**

Jan. 2019.

**Expiry Date:**

Jan,2022

**Disclaimer:**

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