



吉林梅花氨基酸有限责任公司  
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# Material Safety Data Sheet

## L-Lysine HCL FEED GRADE

### Section 1 - Chemical Product and Company Identification

Material name: L-(+)-Lysine

Monohydrochloride Synonyms:

Lysine, monohydrochloride, L-; Lyamine; Lysine hydrochloride; L-Lysine hydrochloride;

Lysine monohydrochloride; L-Lysine, monohydrochloride

### Section 2 - Composition /Information on Ingredients

Chemical Name	CAS No	%	EINECS#
L-(+)-Lysine Monohydrochloride	657-27-2	100%	211-519-9

### Section 3 - Hazards Identification

Emergency Overview

Appearance: White.

Caution! The toxicological properties of this material have not been fully investigated. May cause eye and skin irritation. May cause respiratory and digestive tract irritation.

Target Organs: No data found.

Potential Health Effects

Eye:

May cause eye irritation.

Skin:

May cause skin

irritation. Ingestion:

May cause irritation of the digestive tract. The toxicological properties of this substance have not been fully investigated.

Inhalation:

May cause respiratory tract irritation. The toxicological properties of this substance have not been fully investigated.

Chronic:

No information found.

### Section 4 - First Aid Measures

Eyes:



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

**Skin:**

Get medical aid. Flush skin with plenty of soap and water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse.

**Ingestion:**

Never give anything by mouth to an unconscious person. Get medical aid. Do NOT induce vomiting. If conscious and alert, rinse mouth and drink 2-4 cupfuls of milk or water.

**Inhalation:**

Remove from exposure to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid.

**Notes to Physician:**

Treat symptomatically and

**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. Dusts at sufficient concentrations can form explosive mixtures with air.

During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion.

**Extinguishing Media:**

Use agent most appropriate to extinguish fire. In case of fire use water spray, dry chemical, carbon dioxide, or appropriate foam.

**Section 6 - Accidental Release Measures**

**General Information:** Use proper personal protective equipment as indicated in Section 8.

**Spills/Leaks:**



Clean up spills immediately, observing precautions in the Protective Equipment section. Sweep up or absorb material, then place into a suitable clean, dry, closed container for disposal. Avoid generating dusty conditions. Provide ventilation.

### Section 7 - Handling and Storage

#### Handling:

Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Use with adequate ventilation. Minimize dust generation and accumulation. Avoid contact with eyes, skin, and clothing. Keep container tightly closed. Avoid ingestion and inhalation.

#### Storage:

Store in a tightly closed container. Store in a cool, dry, well-ventilated area away from incompatible substances.

### 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.

Use adequate ventilation to keep airborne concentrations low.

#### Exposure Limits

Chemical Name	ACGIH	NIOSH	OSHA - Final PELs
L-Lysine Hydrochloride	none listed	none listed	none listed

#### OSHA Vacated PELs:

L-Lysine hydrochloride:

No OSHA Vacated PELs are listed for this chemical.

#### Personal Protective Equipment

##### Eyes:

Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

##### Skin:

Wear appropriate protective gloves to prevent skin exposure.

##### Clothing:

Wear appropriate protective clothing to prevent skin exposure.

##### Respirators:

A respiratory protection program that meets OSHA's 29 CFR §1910.134 and ANSI Z88.2 requirements or European Standard EN 149 must be followed whenever workplace conditions warrant a respirator's use.



## Section 9 - Physical and Chemical Properties

Physical State:	Powder
Appearance:	White
Odor:	None reported
pH:	Not available.
Vapor Pressure:	Negligible.
Vapor Density:	Not available.
Evaporation Rate:	Negligible.
Viscosity:	Not available.
Boiling Point:	Not available.
Freezing/Melting Point:	263~264°C
Autoignition Temperature:	Not applicable.
Flash Point:	Not applicable.
NFPA Rating:	(est.) Health: 1; Flammability: 0; Reactivity: 0
Explosion Limits, Lower:	Not available.
Upper:	Not available.
Decomposition Temperature:	>240°C
Solubility:	Soluble.
Molecular Formula:	C <sub>6</sub> H <sub>14</sub> N <sub>2</sub> O <sub>2</sub> ·HCl
Molecular Weight:	182.65

## Section 10 - Stability and Reactivity

### Chemical Stability:

Stable. However, may decompose if heated.

### Conditions to Avoid:

Incompatible materials, dust generation, temperatures above 150°C.

### Incompatibilities with Other Materials:

Strong oxidizing agents.

### Hazardous Decomposition Products:

Hydrogen chloride, nitrogen oxides, carbon monoxide, irritating and toxic fumes and gases, carbon dioxide.

Hazardous Polymerization: Has not been reported.

## 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 hydrochloride -

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



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**Epidemiology:**

No information available.

**Teratogenicity:**

No information available.

**Reproductive Effects:**

No information available.

**Neurotoxicity:**

No information available.

**Mutagenicity:**

No information available.

**Other Studies:**

No information available.

**Section 12 - Ecological Information**

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 Part. Additionally, waste generators must consult state and local hazardous waste regu. ensure complete and accurate classification.

RCRA P-Series: None listed.

RCRA U-Series: None listed.

**Section 14 - Transport Information**

**US DOT**

No information available.

**Canadian TDG**

No information available.

**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**

**Section 302 (RQ)**

None of the chemicals in this material have an RQ.

**Section 302 (TPQ)**

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.



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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

L-Lysine hydrochloride 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

United Kingdom Occupational Exposure Limits

Canada

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

This product does not have a WHMIS classification.

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

SAFETY DATA SHEET

MANUFACTURE DATE: 2016-1-1

EXPIRY DATE: 2017-12-31

Section 16 - Additional Information

The above information has been compiled by MEIHUA GROUP INTERNATIONAL TRADING (HONG KONG)

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