



# Safety Data Sheet

Revision Date: 5/29/15

## 1. PRODUCT AND COMPANY IDENTIFICATION

### Product Identifiers

**Product Name** L-Lysine Monohydrochloride 99%  
**Product Number**  
**Brand** CJ

**Use of Substance/Preparation** Animal feed  
**Synonyms/Alternate Names** L-Lysine HCl; L-Lysine HCl 99%

### Supplier Information

**Company** CJ Bio America  
1946 Harvest Avenue  
Fort Dodge, IA 50501  
USA  
**Telephone** 515-302-8028  
**Fax** 515-574-3190  
**Emergency Phone Number**

## 2. HAZARD IDENTIFICATION

**Emergency Overview** May be irritating to eyes, skin and respiratory system; Fine dust dispersed in air may ignite.

**Appearance** Tan  
**Physical State** Solid; Granular  
**Odor** Slight odor

**Potential Health Effects**

**Routes of Exposure** Eye contact, skin contact, inhalation

**Acute Effects**

**Eyes** May cause irritation  
**Skin** May cause irritation  
**Inhalation** May cause irritation  
**Ingestion** Health injuries not known or expected under normal use; Not for human consumption.

**Chronic Effects** None known.

**OSHA Defined Hazards** Not classified  
**GHS Label Elements** N/A – Not a hazardous substance or mixture  
**GHS Signal Word** N/A – Not a hazardous substance or mixture

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

**Common Name** L-Lysine monohydrochloride  
**Formula** C<sub>6</sub>H<sub>14</sub>N<sub>2</sub>O<sub>2</sub> - HCl

**Non-Hazardous Components**

Chemical Name	CAS No.	Weight %	North American Hazard Indicator
L-Lysine monohydrochloride	657-27-2	100	-

**4. FIRST AID MEASURES**

**Eye Contact** Rinse thoroughly with copious amounts of water  
**Skin Contact** Rinse immediately with copious amounts of water; Soap may be helpful.  
**Inhalation** Move to fresh air  
**Ingestion** Rinse mouth with water; Drink water to dilute; Consult a physician if necessary.  
**Notes to Physician** Treat symptomatically  
**Protection of First Aid Providers** Use personal protective equipment.

**5. FIRE-FIGHTING MEASURES**

**Flammable Properties** Product is capable of burning but is not readily ignited; Risks of ignition followed by flame propagation or secondary explosions should be prevented by avoiding accumulation of dust.  
**Suitable Extinguishing Media** Water; Carbon dioxide (CO<sub>2</sub>); Dry chemical.  
**Unsuitable Extinguishing Media** None  
**Hazardous Combustion Products** Carbon monoxide (CO); Carbon dioxide (CO<sub>2</sub>); Nitrogen oxides (NO<sub>x</sub>); HCl.

**Explosion Data**  
**Sensitivity to Mechanical Impact** No information available.  
**Sensitivity to Static Discharge** Yes (dust)  
**Specific Hazards Arising from the Chemical** No known hazards.

**NFPA**  
**Health** 0  
**Flammability** 1  
**Stability & Reactivity** 0  
**Physical Hazard** -



## 6. ACCIDENTAL RELEASE MEASURES

<b>Personal Precautions</b>	Ensure adequate ventilation
<b>Environmental Precautions</b>	Prevent further chemical release if safe to do so.
<b>Methods for Clean-up</b>	Sweep up and shovel into suitable containers for disposal.

## 7. HANDLING AND STORAGE

<b>Handling</b>	Handle in accordance with good industrial hygiene and safety practice; Ensure adequate ventilation; Avoid dust formation in confined areas; Fine dust dispersed in air may ignite; Refer to NFPA 64, "Standard for the Prevention of Fires and Dust Explosions in Agricultural and Food Processing Facilities."
<b>Storage</b>	Keep containers dry and tightly closed to avoid moisture absorption and contamination. Keep away from sources of ignition.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Exposure Limits

Chemical Name	ACGIH TLV	OSHA PEL	MEXICO	NIOSH IDLH	OSHA
Particulates not otherwise regulated	TWA: 10 mg/m <sup>3</sup>	TWA: 15 mg/m <sup>3</sup> (total), 5 mg/m <sup>3</sup> (respirable)			TWA: 10 mg/m <sup>3</sup> (total), 3 mg/m <sup>3</sup> (respirable)

<b>Engineering Measures</b>	Ensure adequate ventilation, especially in confined areas; Apply technical measures to comply with the occupational exposure limits.
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### Personal Protective Equipment

<b>Eye/Face Protection</b>	Safety glasses
<b>Skin &amp; Body Protection</b>	Long sleeved clothing; Protective gloves.
<b>Respiratory Protection</b>	In case of insufficient ventilation, wear suitable respiratory protection.

<b>General Hygiene Consideration</b>	Handle in accordance with good industrial hygiene and safety practices.
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## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance</b>	<b>Tan</b>
<b>Physical State</b>	Solid; Granular
<b>Odor</b>	Slight odor
<b>Odor Threshold</b>	No information available
<b>Flash Point</b>	Not applicable
<b>Autoignition Temperature</b>	No data available
<b>Boiling Point</b>	Not applicable
<b>Melting/Freezing Point</b>	Approx. 260°C/500°F
<b>Flammability Limits in Air</b>	No information available
<b>Exposure Limits</b>	No information available
<b>Minimum Ignition Temperature</b>	460°C/860°F
<b>pH</b>	Neutral
<b>Vapor Pressure</b>	Not applicable
<b>Solubility</b>	Insoluble in alcohol and ether
<b>Water Solubility</b>	Soluble (642 g/L at 30°C)
<b>Evaporation Rate</b>	Not applicable
<b>Bulk Density</b>	0.55 – 0.75 g/mL
<b>Specific Gravity</b>	No information available
<b>Oxidizing Properties</b>	No information available

## 10. STABILITY AND REACTIVITY

<b>Chemical Stability</b>	Stable under normal conditions
<b>Conditions to Avoid</b>	Heat, flames and sparks; Other sources of ignition.
<b>Incompatible Materials</b>	None known
<b>Hazardous Decomposition Products</b>	None known
<b>Possibility of Hazardous Reactions</b>	None under normal processing

## 11. TOXICOLOGICAL INFORMATION

<b>Acute Toxicity</b>	
<b>LD50 Oral</b>	10000 mg/kg (Rat)
<b>LD50 Dermal</b>	No information available
<b>LC50 Inhalation</b>	No information available
<b>Chronic Effects</b>	
<b>Carcinogenicity</b>	No known carcinogenic chemicals in product
<b>OSHA</b>	Not listed
<b>ACGIH</b>	Not listed
<b>NTP</b>	Not listed
<b>Mexico</b>	Not listed
<b>IARC</b>	Not listed
<b>Subchronic Toxicity</b>	No information available
<b>Irritation</b>	No information available
<b>Corrosivity</b>	No information available
<b>Sensitization</b>	No information available
<b>Neurological Effects</b>	No information available
<b>Mutagenic Effects</b>	No information available
<b>Reproductive Effects</b>	No information available
<b>Developmental Effects</b>	No information available
<b>Teratogenicity</b>	No information available

Target Organ Effects

Respiratory system; Eyes; Skin.

## 12. ECOLOGICAL INFORMATION

Ecotoxicity	Contains no substances known to be hazardous to the environment; Contains no substances known to be non-degradable in waste water treatment plants.
Persistence/Degradability	Readily biodegradable
Bioaccumulation/Accumulation	Not applicable
Mobility	Soluble in water

## 13. DISPOSAL CONSIDERATIONS

Waste Disposal Methods	May be landfilled or incinerated, when in compliance with local regulations; Dispose of in compliance with the laws and regulations pertaining to this product in your jurisdiction.
Contaminated Packaging	Empty containers may be taken for local recycling, recovery or waste disposal.

## 14. TRANSPORT INFORMATION

Domestic Transport Regulations (USA)	DOT – Not regulated
Domestic Transport Regulations (CAN)	TDG – Not regulated
Domestic Transport Regulations (MEX)	MEX – Not regulated
International Transport Regulations	
ICA0	Not regulated
IATA	Not regulated
IMDG/IMO	Not regulated

## 15. REGULATORY INFORMATION

International Inventories The components of this product are reported in the following inventories:

Chemical Name	TSCA	DSL	NDSL	EINECS	ELINCS	AICS	ENCS	CHINA	PICCS	KECL	NZLoC
L-Lysine monohydrochloride	Yes	Yes	No	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes

**Legend**

DSL – Domestic Substance List (Canada); EINECS – European Inventory of Existing Commercial Chemical Substances (EU); AICS – Australian Inventory of Chemical Substances (Australia); ENCS – Existing and New Chemical Substances (Japan); PICCS – Inventory of Chemicals and Chemical Substances (Philippines); KECL – Korean Existing and Evaluated Chemical Substances (Korea); NZLoC – New Zealand Inventory of Chemicals (New Zealand); TSCA – Toxic Substances Control Act, Section 8(b) Inventory (USA).

**USA – Federal Regulations**  
**Ozone Depleting Substances**

No Class I or Class II material is known to be used in the manufacture of, or contained, in this product.

**SARA 313**

Not known to contain reportable chemicals.

**SARA 311/312 Hazardous**  
**Categorization**

<b>Acute Health Hazard</b>	No
<b>Chronic Health Hazard</b>	No
<b>Fire Hazard</b>	No
<b>Sudden Release of Pressure Hazard</b>	No
<b>Reactive Hazard</b>	No

**Clean Air Act, Section 112 Hazardous Air Pollutants (HAPS) – 40 CFR 61**      Not known to contain any HAPS.

**State Regulations  
California Proposition 65**      Not known to contain Proposition 65 chemicals above those naturally present in their agricultural source.

**State Right-to-Know**      No known components subject to “Right-To-Know” legislation of any U.S. state.

**Canada  
WHMIS Product Classification**      Not a WHMIS controlled product.  
**WHMIS Ingredient Disclosure List IDL**      No known component is listed on the WHMIS Ingredients disclosure list.  
**Canadian National Pollutant Release Inventory (NPRI)**      No known component is listed on NPRI.

<b>16. OTHER INFORMATION</b>
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<b>Prepared By</b>	CJ Bio America
<b>Preparation Date</b>	5/29/15
<b>Revision Date</b>	5/29/15
<b>Revision Summary</b>	Initial draft into GHS format

<p><b>The information provided on this SDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any other process, unless specified in the text.</b></p>
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