



SAFETY DATA SHEET

L-Lysine Monohydrochloride [Feed Grade (98.5%)]

1. IDENTIFICATION

1.1. Product identifier

Trade Name: L-Lysine Monohydrochloride – Feed Grade 98.5%

Synonyms: Lysine Hydrochloride, L-Lysine Hydrochloride, Lysine Monohydrochloride, L-Lysine Monohydrochloride

1.2. Relevant identified uses of the product

Identified Uses: For Animal feed only- not for human consumption

1.3. Identification of the Company

Manufacturer and Distributer:

Ajinomoto Health & Nutrition North America, Inc.
1116 Hwy 137
Eddyville, Iowa 52553

Phone: 641- 969-4551 – Eddyville IA
773-380-7000 – Chicago, IL.

2. HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

Not a hazardous substance or mixture according to Regulation (EC) No 1272/2008.

Not a hazardous substance or mixture according to Directive 67/548/EEC.

2.2. Label Elements

Labeling according to regulation:

**29 CFR 1910.1200 (HCS),
(EC) No 1272/2008 [EU-GHS/CLP]**



Signal Word:

Warning

Hazard Statement:

May form combustible concentrations in air
H317: May cause an allergic skin reaction

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H320: May Cause eye irritation
H333: May be harmful if inhaled
H335: May cause respiratory irritation

2.3. Other Hazards: None

3. COMPOSITION/INFORMATION ON INGREDIENTS

Components:	Concentration:	AAFCO#	CAS#
L-Lysine Monohydrochloride	Minimum 98.5%	6.11	657-27-2

4. FIRST AID MEASURES

4.1. Description of first aid measures

If inhaled:

In case of breathing trouble, immediately relocate to a fresh air environment. Seek medical attention.

In case of skin contact

In case of exposure, wash with soap and copious amounts of water. If irritation persists, seek medical attention.

In case of eye contact

Flush eyes with copious amounts of water for at least 15 minutes. Ensure adequate flushing by separating eyelids with fingers. If contact lenses are worn, remove lenses and continue rinsing. Seek medical attention.

If swallowed

Rinse mouth with water. If any trouble appears, seek medical attention.

4.2. Most important symptoms and effects, both acute and delayed

Difficulty breathing and or respiratory stress.

4.3. Indication of any immediate medical attention and special treatment needed

No data available

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Signal Word:

Hazard Statement:

Warning

May be harmful if swallowed or inhaled

H317: May cause an allergic skin reaction

H320: May Cause eye irritation

H333: Maybe harmful if inhaled

H335: May Cause respiratory irritation

5. FIREFIGHTING MEASURES

5.1 Extinguishing Media: Dry Chemical, Foam, Water, and or Carbon Dioxide

5.2 Unusual Fire & Explosion Hazards: Materials may pose a fire hazard when exposed to flame.



Signal Word:

Hazard Statement:

Warning

May for combustible concentrations in air

H242: Heating may cause a fire.

5.3 Special Fire-Fighting Procedures: Wear Protective clothing and respiratory protection to protect from fumes.

5.4. Further information

No data available

6. ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

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Avoid breathing vapors, mist, or gas. Recommend exhausting of fumes when being heated (See paragraph 8 for additional information).

6.2. Environmental precautions

Prevent further leakage or spillage by taking action against loss of containment. In case of release in large quantities, avoid releasing in sewers and water courses.

6.3 Methods for cleaning up:

Small quantities- Water, shovel or suction device and dispose of in accordance with all regulations.
Large quantities- Run off must be prevented from running down drains, sewers, or streams. Water, shovel or suction device and dispose of in accordance with all regulations.

7. HANDLING AND STORAGE

7.1. Precautions for safe handling

Follow good manufacturing practice and personal hygiene. Wash hands immediately to avoid hand to eye transfer and handle in a well-ventilated area. Protective equipment: Must wear safety glasses and gloves.

Standard precautions:

- Avoid fumes from heating operations
- Provide mechanical exhaust or ventilation
- Clean and eliminate dust from equipment regularly
- Avoid exposure to flame and or sparks
- Use respiratory protection if fuming is visible in air

7.2. Conditions for safe storage, including any incompatibilities

In the containers in which the product has been delivered. Keep in dry conditions and Store at ambient temperatures: do not expose to extremely high temperature.

7.3. Specific end uses

No data available

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8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control Parameters

Components with workplace control parameters

Does not contain any substance subject to an exposure limit value.

8.2. Exposure controls

Engineering controls

No data available

Personal protective equipment

Eye/face protection

Wear safety goggles in case of direct contact

Body protection

Wear protective clothes covering skin. Discard or wash protective clothes after exposure to product.

Skin protection

Wear gloves, especially in case of extended contact

Respiratory protection

Wear a mask covering both nose and mouth.



Signal Word:

Warning

Precautionary Statement:

P210 Keep away from heat, hot surfaces, and ignition sources

P234: Keep in original Container

P333: Maybe harmful if inhaled

P305+351+338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Appearance & Odor: White powder; odorless.

Solubility in Water: 63g/100g water at 20°C

Flash Point: 540° F (Closed Cup)

Specific gravity: N/A

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Bulk Density: 0.55 to 0.65 grams/cm³ (34.3 to 40.5 lbs./ft³)

Boiling Point: N/A

Melting Point: N/A

Vapor Pressure: N/A

Percent Volatile: 0%

Product Dust Characteristics:

MIE	185 mj
MEC	87 g/m ³
Pmax	6.8 ± 10% bar
Kst	130 ± 12% bar-m/sec

Classification: ST1

9.2. Other safety information



Signal Word:

Warning

Precautionary Statement:

P342: If experiencing respiratory symptoms: remove self from area
P363: Wash contaminated clothing before reuse

10. STABILITY AND REACTIVITY

Stability: Stable if stored in dry conditions at moderate temperature in sealed or closed containers

Conditions to Avoid: Hot and humid environments

Hazardous Decomposition Products: When heated to decomposition: Carbon monoxide, carbon dioxide, nitrogen oxides, and hydrogen chloride gas fumes will be emitted

11. TOXICOLOGICAL INFORMATION

11.1. Acute toxicity

Oral: No data available

Sensitization: No data available

Chronic exposure: No data available

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Specific Effects:

Carcinogenic Effects: No information Available

Mutagenic Effects: No information Available

Reproductive Effects: No information Available

Target Organ Effects: No information Available

12. ECOLOGICAL INFORMATION

12.1. Toxicity Contains no substance known to be hazardous to the environment

13. Disposal Consideration

Check with Federal, Provincial and local regulations

14. Transport Information

Proper Shipping Name: L-Lysine Monohydrochloride

Identification (Iowa Registration No.): 002-58-00

FDACFR: 582.5411

AAFCO#: 6.11

14.1 Not dangerous goods in the meaning of ADR/RID, ADNR, IMDG-Code, ICAO/IATA-DGR, based on composition of ingredients listed in section 3 and 9.

15. REGULATORY INFORMATION

15.1. Safety, health and environmental regulations / legislation specific for the substance or mixture

No data available

15.2. Chemical Safety Assessment

No data available

16. OTHER INFORMATION: The above information is believed to be accurate and represents the best information currently available to us and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product in regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Users should make their own investigations to determine the suitability of the information for their particular purposes. Ajinomoto Animal Nutrition North

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Eat Well, Live Well.



Ajinomoto Health & Nutrition North America, Inc.
1116 Hwy 137, Eddyville, Iowa 52553-5005
TEL: 1-641-969-4551 FAX 1-641-969-4717

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America, Inc. shall not be held liable for any damage resulting in the handling or from the contact with the above product.

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