



**AJINOMOTO®**

**AJINOMOTO HEARTLAND, INC.**

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[www.lysine.com](http://www.lysine.com)

## MATERIAL SAFETY DATA SHEET

### L-Lysine Monohydrochloride [Feed Grade (78.8%)]

**MANUFACTURED AND DISTRIBUTED BY:** *Ajinomoto Heartland, Inc.*  
*1116 Hwy 137*  
*Eddyville, Iowa 52553*

**EMERGENCY PHONE:** *(641) 969-4551 – Eddyville, IA*  
*(773) 380-7000 – Chicago, IL*

#### DESCRIPTION

*Product Name:* L-Lysine Monohydrochloride  
*Chemical Name:* 2.6 Diaminohexanoic Acid  
*CAS Registry Number:* 657-27-2  
*Synonyms:* Lysine Hydrochloride  
L-Lysine Hydrochloride  
Lysine Monohydrochloride  
L-Lysine Monohydrochloride  
*Chemical Family:* Amino acid  
*Composition:* As L-Lysine, at least 78.8% pure  
*Formula:*  $C_6H_{14}N_2O_2 \cdot HCl$   
*MW:* 182.65

#### STATEMENT OF HEALTH HAZARD

*Hazard Description:* Avoid contact with eyes, mild eye irritant; otherwise non hazardous.

#### EMERGENCY TREATMENT

*Eyes:* Flush eyes with water for 15 minutes. Ensure thorough rinsing.

***For animal feed only – not for human consumption***

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### PHYSICAL DATA

<i>Bulk Density:</i>	0.55 to 0.65 grams/cm <sup>3</sup> (34.3 to 40.5 lbs/ft <sup>3</sup> )
<i>Appearance &amp; Odor:</i>	White powder; odorless; slightly characteristic taste
<i>Solubility in Water</i>	63 g/100 g water at 20°C
<i>Percent Volatile:</i>	0%
<i>Evaporation Rate:</i>	None

### SPILL OR LEAK PROCEDURES

<i>Steps to be Taken:</i>	Ordinary, same as food
<i>Waste Disposal:</i>	Dissolve or suspend in H <sub>2</sub> O

### FIRE & EXPLOSION HAZARD DATA

<i>Flash Point:</i>	None
<i>Autoignition Temperature:</i>	N/A
<i>Flammable Limits in Air:</i>	Non Flammable
<i>Extinguishing Media:</i>	Water
<i>Special Fire-Fighting Procedures:</i>	Should wear protective clothing and respiratory protection to protect from fumes of HCl and NO <sub>x</sub> .
<i>Unusual Fire &amp; Explosion Hazards:</i>	Not a fire hazard

### CHEMICAL REACTIVITY

<i>Stability:</i>	Stable if stored in dry conditions in sealed or closed containers.
<i>Conditions to Avoid:</i>	None
<i>Hazardous Decomposition Products:</i>	When heated to decomposition: Carbon monoxide, carbon dioxide, nitrogen oxides (NO <sub>x</sub> ), hydrogen chloride gas fumes will be emitted.

### SPECIAL PROTECTION & PROCEDURES

<i>Respiratory Protection:</i>	Unnecessary
<i>Ventilation:</i>	Ordinary
<i>Protective Equipment:</i>	None needed

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### HANDLING & STORAGE

*Handling:* Recommended to wear gloves and face mask if excessive handling is necessary.

*Storage:* Keep away from sources of ignition. Store in dry conditions in sealed or closed containers.

*Work Place:* Protective Equipment: None Required.

### LABELING & SHIPPING

*Proper Shipping Name:* L-Lysine Monohydrochloride

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

*FDA<sub>CFR</sub>:* 582.5411

*AAFCO #:* 6.11

### DISPOSAL CONSIDERATIONS

*Disposal:* Dispose of in accordance with all regulations.

### OTHER REGULATORY REQUIREMENTS

None

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