



AJINOMOTO®

AJINOMOTO HEARTLAND LLC

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www.lysine.com

MATERIAL SAFETY DATA SHEET

L-Lysine Monohydrochloride [Feed Grade]

MANUFACTURED AND DISTRIBUTED BY: *Ajinomoto Heartland LLC*
1 Heartland Drive
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

<p style="text-align: center;">MATERIAL SAFETY DATA SHEET L-Lysine Monohydrochloride [Feed Grade (78.8%)]</p>

PHYSICAL DATA

<i>Bulk Density:</i>	0.55 to 0.65 grams/cm ³ (34.3 to 40.5 lbs/ft ³)
<i>Appearance & 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 ₂ 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 _x .
<i>Unusual Fire & 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 _x), 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

<i>Handling:</i>	Recommended to wear gloves and face mask if excessive handling is necessary.
<i>Storage:</i>	Keep away from sources of ignition. Store in dry conditions in sealed or closed containers.
<i>Work Place:</i>	Protective Equipment: None Required.

LABELING & SHIPPING

<i>Proper Shipping Name:</i>	L-Lysine Monohydrochloride
Identification (Iowa Registration No.):	002-58-00
FDA _{CFR} :	582.5411
AAFCO #:	6.11

DISPOSAL CONSIDERATIONS

<i>Disposal:</i>	Dispose of in accordance with all regulations.
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OTHER REGULATORY REQUIREMENTS

None