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: C₆H₁₄N₂O₂·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.
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PHYSICAL DATA

Bulk Density: 0.55 to 0.65 grams/cm³ (34.3 to 40.5 lbs/ft³)
Appearance & Odor: White powder; odorless; slightly characteristic taste
Solubility in Water: 63 g/100 g water at 20°C
Percent Volatile: 0%
Evaporation Rate: None

SPILL OR LEAK PROCEDURES

Steps to be Taken: Ordinary, same as food
Waste Disposal: Dissolve or suspend in H₂O

FIRE & EXPLOSION HAZARD DATA

Flash Point: None
Autoignition Temperature: N/A
Flammable Limits in Air: Non Flammable
Extinguishing Media: Water
Special Fire-Fighting Procedures: Should wear protective clothing and respiratory protection to protect from fumes of HCl and NOₓ.

Unusual Fire & Explosion Hazards: Not a fire hazard

CHEMICAL REACTIVITY

Stability: Stable if stored in dry conditions in sealed or closed containers.
Conditions to Avoid: None
Hazardous Decomposition Products: When heated to decomposition: Carbon monoxide, carbon dioxide, nitrogen oxides (NOₓ), hydrogen chloride gas fumes will be emitted.

SPECIAL PROTECTION & PROCEDURES

Respiratory Protection: Unnecessary
Ventilation: Ordinary
Protective Equipment: 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 CFR: 582.5411
AAFCO #: 6.11

DISPOSAL CONSIDERATIONS
Disposal: Dispose of in accordance with all regulations.

OTHER REGULATORY REQUIREMENTS None

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