



AJINOMOTO®

AJINOMOTO HEARTLAND, INC.

8430 W. Bryn Mawr, Suite 650 • Chicago, IL 60631-3421

Tel: (773) 380-7000 Fax: (773) 380-7006

www.lysine.com

MATERIAL SAFETY DATA SHEET

AjiLys™ - Liquid Lysine [Feed Grade 50%]

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:

AjiLys™

Chemical Name:

2, 6 Diaminohexanoic Acid

CAS Registry Number:

56-87-1 (L-Lysine)

Synonyms:

Aqueous solution of L-Lysine. Alpha, Epsilon-Diaminocaproic Acid; 2, 6–Diaminohexanoic Acid; L-Lysine

Chemical Family:

Amino Acid

Composition:

As L-Lysine, 50.0% (wt/wt, minimum)

Chemical Formula:

C₆H₁₄ N₂O₂ (L-Lysine) + H₂O (Water)

Product Use:

To be used in the manufacture of animal feeds

PHYSICAL DATA

Appearance & Odor:

Brown liquid, slight odor

Specific Gravity (H₂O=1):

1.12 to 1.19 kg/L (9.35 to 9.93 lbs/gallon)

pH as Supplied:

10 to 11

Solubility in Water:

Aqueous liquid

Dry Matter (average):

50 to 60%

Molecular weight:

146.19

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STATEMENT OF HEALTH HAZARD

Hazard Description:

Avoid contact with eyes, mild eye irritant; otherwise non-hazardous.

EMERGENCY TREATMENT

Eyes:

Wash eyes immediately with large amounts of water or saline.

Skin Contact:

Ensure thorough rinsing. Remove contaminated clothing and wash with water and mild detergent.

SPILL OR LEAK PROCEDURES

Steps To Be Taken:

Ordinary, same as food

Waste Disposal:

Collect spilled material in appropriate containers for disposal. Keep out of water supplies and sewers. Keep unnecessary people away, isolate area.

FIRE & EXPLOSION HAZARD DATA

Fire-Fighting Measures:

Aqueous solution; non-flammable

Unusual Fire & Explosion Hazards:

Not a fire hazard

POTENTIAL CHEMICAL REACTIVITY

Stability:

Stable for 6 months at 25 to 35°C (77 to 95°F).

Conditions to Avoid:

Temperature below less than 0°C (32°F) - viscosity will increase at low temperatures

Incompatibility (Materials to avoid):

Liquid Methionine Hydroxy Analogue (HMTBa; a 50:50 mixture of AjiLys™ and HMTBa will create a significant amount of heat and steam), Liquid Methionine, Liquid Choline Chloride or highly unsaturated fat.

There are no known incompatibility issues between AjiLys™ and either HMTBa, Liquid Methionine, Liquid Choline Chloride or fat when the liquids are simultaneously yet, independently applied to actively mixing feed.

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SPECIAL PROTECTION & PROCEDURES

Protective Equipment: Splash-resistant eye protection recommended

Skin Protection: Appropriate chemical-resistant gloves recommended

Ventilation / Respiratory Protection: Handle only in well-ventilated areas. Ensure compliance with applicable exposure limits.

HANDLING & STORAGE

Handling: Recommended to wear chemical-resistant gloves and eye protection when handling.

Storage: Store in insulated tanks at temperatures between 25 and 35°C (77 and 95°F); do not let AjiLys™ go below 0°C (32°F), as viscosity will increase at low temperatures

Other Precautions: Keep separated from incompatible substances.

LABELING & SHIPPING

Proper Shipping Name: AjiLys™ (Liquid Lysine)

FDA_{21 CFR}: 582.5411

AAFCO_{ID#}: 6.16

DISPOSAL CONSIDERATIONS

Disposal: Dispose of in accordance with all regulations.

OTHER REGULATORY REQUIREMENTS

None

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