



**AJINOMOTO**<sup>®</sup>  
AJINOMOTO HEARTLAND, INC.

AJINOMOTO ANIMAL NUTRITION GROUP

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

## SAFETY DATA SHEET

### AjiLys<sup>®</sup> - Liquid Lysine [ Feed Grade 50.0% ]

#### 1. Identification

**Product Name:** AjiLys<sup>®</sup> - Liquid Lysine – Feed Grade 50%

**Synonyms:** Aqueous solution of L-Lysine. Alpha, Epsilo-Diaminocaproic Acid; 2, 6-Diaminohexanoic Acid; L-Lysine

**Restrictions:** For Animal feed only- not for human consumption

**Manufacturer and Distributer:** Ajinomoto Heartland Inc.

1116 Hwy 137

Eddyville, Iowa 52553

**Phone:** 641- 969-4551 – Eddyville IA

773-380-7000 – Chicago, IL.

#### 2 Hazard Identification

**Eye:** Mild irritant, avoid contact with eyes, otherwise non hazardous

**Ingestion:** No effects expected from normal use or minor amounts ingested

**Skin:** Mild irritant otherwise non hazardous

**Principle Routes of Exposure:** Eyes, ingestion, and skin

#### 3. Composition on ingredients

2-Amino-3-Hydroxybutric Acid

CAS registry number: 72-19-5

Formula: C<sub>6</sub>H<sub>14</sub>NO<sub>2</sub> (L-Lysine) +H<sub>2</sub>O (Water)

As L-Lysine, 50% (wt. /wt., minimum)

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### 4. First Aid measures

**Eye Contact:** Flush eyes with water for 15 minutes

**Ingestion:** Don't swallow; rinse mouth with water and drink plenty of water

**Skin Contact:** Ensure thorough rinsing. Remove contaminated clothing and wash with water and mild detergent.

**Inhalation:** Provide fresh air

### 5. Fire-fighting measures

Aqueous solution; non-flammable not a fire hazard

### 6. Accidental release measures

**Methods for cleaning up:** Run off must be prevented from running down drains, sewers, or streams. Dispose of in accordance with all regulations.

### 7. Handling and Storage:

**Handling:** Recommended to wear chemical-resistant gloves and safety glasses. Wash hands immediately to avoid hand to eye transfer.

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

**Other Precautions:** Keep separated from incompatible substances

### 8. Exposure controls/ Personal Protection

**Hygiene measures:** Handle with good industrial hygiene and safety practice. Wash hands before breaks and at the end of the day

**Skin Protection:** Appropriate chemical-resistant gloves recommended

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

**Protective Equipment:** Splash-resistant eye protection recommended

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### 9. Physical and Chemical Data

**Appearance & Odor:** Brown liquid, slight odor

**Specific Gravity (H<sub>2</sub>O=1):** 1.12-1.19kg/l (9.35-9.93lbs/gallon)

**pH as Supplied:** 10-11

**Solubility in water:** Aqueous liquid

**Dry Matter:** 50-60%

**Molecular weight:** 146.19

### 10. Stability and reactivity

**Reactivity:** See Incompatibility below

**Stability:** Stable for 6 months at 25-35°C (77-95°F)

**Conditions to Avoid:** Temperature below 0°C (32°F) – viscosity will increase at low temperatures

**Incompatibility (Materials to avoid)** Liquid Methionine Hydroxy Analogue

(a 50:50 mixture of AjiLys® and 2-hydroxy-4- (methylthio) butanoate (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.

### 11. Toxicological Information:

**Eye Irritation:** Can cause mild irritant otherwise non hazardous

**Inhalation:** Handle in a ventilation area

**Ingestion:** No effects expected from normal use or minor ingestion

**Sensitization:** No data available

**Chronic exposure:** No data available

#### Specific Effects:

**Carcinogenic Effects:** No information Available

**Mutagenic Effects:** No information Available

**Reproductive Effects:** No information Available

**Target Organ Effects:** No information Available

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**12. Ecological information:**

Fish and other wildlife may be harmed as a result of this material being released in their vicinity.

**13. Disposal Considerations:** Check with federal, provincial and local regulations

**14. Transport information:**

**Proper Shipping Name:** AjiLys® (Liquid Lysine)

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

**AAFCO#:** 6.16

**15. Toxicological Information:** N/A

**16. Other Information**

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

Prepared by: Ajinomoto Heartland, Inc. April 2015

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