

AJINOMOTO BIOLATINA - INTERAMERICANA

AJINOMOTO ANIMAL NUTRITION

L-Lysine HCl 99% - *Ajilyls*® 99
L-Lysine Monohydrochloride 99%

Additive Nutritional for Animal Feed

Only for animal consumption. Not intended for human use.

1. Company and Chemical Product Identification

Manufactured by: AJINOMOTO INTERAMERICANA IND. E COM. LTDA
Rod. Dr. Plácido Rocha, Km 39
16880-000 – Valparaíso – SP - Brazil
Factory Tel: 55 18 3401 9500
Commercial Department Tel: 55 11 5579 6971

AJINOMOTO BIOLATINA IND. E COM. LTDA
Rodovia Manuel Uso Ripolles, km 03
17280-000 - Pederneiras – SP – Brasil
Factory Tel: 55 14 3283 9500
Commercial Department Tel: 55 11 5579 6971

Product name: L-Lysine HCl 99%

2. Product Information

Chemical name: 2,6 Diamino Hexanoic Acid
Chemical formula: C₆ H₁₄ N₂ O₂ HCl
Chemical family: Organic
CAS number: 657-27-2
EINECS number: 2115199

3. Hazards Identification

The product does not pose any particular hazard to health.

4. First-Aid Measures

Immediately flush eyes with abundant amounts of water if contact with eyes, then seek medical attendance.

5. Fire-fighting measures

Elimination means: Apply water
Fire and explosion hazards: Avoid ignition sources
Protection measures: Wear appropriate garments and respiratory protection

6. Accidental release measures

Environmental measures: Wash with water

7. Storage and handling (in normal conditions)

Storage: In dry conditions in sealed or closed containers.
Keep away from combustion sources.

8. Exposure controls / personal protection (common use)

Respiratory: The use of respiratory protection equipment is recommended when handling the product.

Hand: In case of excessive handling, gloves are recommended.

9. Toxicological Information

Eyes: Slightly irritant product.

Skin: Slightly irritant product.

10. Ecological Information

Degradability: Highly bio-degradable.

Bio-accumulation: No.

Toxicity: Non-toxic for animals and plants.

LD50: 4 g/Kg (IP in the rat)

11. Physical and chemical properties

Appearance: White to pale yellow crystals

pH: Solution 10% = 5 to 6

Specific gravity: 0,6 Kg/l

Solubility: in water at 20°C: 642 g/l

Thermal decomposition: 262°C

Minimum ignition energy: in air: particles inferior to 0,18 mm, E5%=45MJ

in O₂: particles inferior to 0,18 mm, E5%=36MJ

Lysine HCl is easily inflammable by electrical sparks.

Minimum explosive concentration: 120 g/m³

Combustion temperature: by comparison of dust: 510°C

by comparison wheat flour: 420°C

Thermal stability of dust layer: L-Lysine HCl does not present a risk of "auto heating". However, its decomposition as from 225°C may increase ignition risks.

Maximum explosion pressure: P_{max} 6,4 to 7,9 bars

by compare wheat flour: 6,6 bars

(these values are comparable to those obtained with most of inflammable dusts.)

Maximum rate of pressure rise: 225 bars/s (test in 1m³ vessel)

by comparison wheat flour: 95 bars/s

Specific characteristic for dust kst: 225 bars/m/s⁻¹

12. Transport Information

Packaging: 25 kg bag

500 kg (Big bag)

600 kg (Big bag)

1000 kg (Big bag)