

BALCHEM™

ANIMAL NUTRITION & HEALTH

World-Class Quality  Worldwide Service

MATERIAL SAFETY DATA SHEET

SECTION I - Chemical Product and Company Identification

Product Name: **AminoShure™-L**

Manufacturer's Name: BALCHEM CORPORATION
52 Sunrise Park Road
PO Box 600
New Hampton, NY 10958

Information Telephone: (845) 326-5600
Emergency Telephone: (800) 424-9300 (CHEMTREC - within US & Canada)
Emergency Telephone: (703) 527-3887 (CHEMTREC - outside continental US)

SECTION II - Composition/Information on Ingredients

| Name | CAS # | Exposure Limits |
|----------------------|----------|--|
| Lysine Hydrochloride | 657-27-2 | 15 mg/m ³ total & 5 mg/m ³ respirable fraction (OSHA 8-hr TWA PEL for nuisance dust) |
| Foodgrade Lipids | | 10 mg/m ³ inhalable particulate (ACGIH 8-hr TWA TLV) |

SECTION III - Hazards Identification

Signs and Symptoms of Overexposure:

Skin Contact: No adverse health effects expected.

Eye Contact: No adverse health effects expected. Dust may cause mechanical irritation.

Ingestion: No adverse health effects expected. Large quantities may cause gastrointestinal disturbances including irritation, nausea, vomiting and diarrhea.

Inhalation: No adverse health effects expected. Product may cause irritation. Breathing large amounts of dust may cause injury. Chronic exposure to dust may result in delayed lung injury.

SECTION IV - First Aid Measures

Emergency and First Aid Procedures

Eye Contact: Flush with water for 15 minutes. Get medical attention if irritation persists.

Skin Contact: Wash skin thoroughly. Remove clothing and launder before reuse. Get medical attention if irritation persists.

Inhalation: Move individual to fresh air. Get medical attention.

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Ingestion: Get medical attention.

SECTION V - Fire Fighting Measures

| | |
|-----------------------------------|---|
| Flash Point: | Lipids have a flash point > 100 °C (212 °F). |
| Flammable Limits: | Unknown. |
| Autoignition Temperature: | Unknown. |
| Extinguishing Media: | Water, foam, carbon dioxide, dry powder |
| Special Fire Fighting Procedures: | Treat as burning fat and do not use water jet. |
| Unusual Fire & Explosion Hazards: | Toxic gases may form similar to normal combustible materials. Rags and other materials containing lipids could potentially heat and spontaneously ignite if exposed to air. |

SECTION VI - Accidental Release Measures

CAUTION: Spilled material may cause floors to be slippery. Prevent large quantities from contacting vegetation or waterways and carefully sweep spilled material into containers for disposal. Wear appropriate personal protective equipment. Flush area with water to remove any trace material. Dispose according to Federal, State and Local regulations.

SECTION VII - Handling and Storage

Keep containers tightly closed. Store in a cool, dry, well ventilated area. Handle with care and avoid all possible sources of contamination.

SECTION VIII - Exposure Controls/Personal Protection

Provide adequate ventilation to minimize dust or vapor buildup. When dust or vapors may be present, use a respirator approved for protection by National Institute for Occupational Safety and Health (NIOSH) against nuisance dust and organic vapors. Protect against skin exposure by wearing appropriate clothing and gloves. At a minimum wear safety glasses. Contact lenses should not be worn when working with this product.

SECTION IX - Physical and Chemical Properties

| | |
|---------------------------|---|
| Appearance and Odor: | Tan to light brown, free-flowing granules with fermentation odor. |
| Melting Point: | Lysine HCl: 260 °C (500 °F); Lipids: 57 – 71 °C (135 – 160 °F) |
| Solubility in Water: | Partially soluble |
| pH: | Neutral |
| Boiling Point: | Lipids: > 250 °C (482 °F) |
| Specific Gravity/Density: | Lysine: 38-42 lb/cu.ft.; Lipids: 0.9 |
| Bulk Density: | Data not available |
| Vapor Pressure: | Data not available |
| Vapor Density: | Data not available |

SECTION X - Stability and Reactivity

| | |
|-----------------------------------|--|
| Stability: | Stable under normal conditions. |
| Conditions to Avoid: | Keep containers tightly closed to avoid contamination. |
| Materials to Avoid: | Strong acids, bases or oxidizers. |
| Hazardous Polymerization: | Will not occur. |
| Hazardous Decomposition Products: | Carbon monoxide and carbon dioxide may form as well as other irritating or poisonous gasses. |

SECTION XI - Toxicological Information

No data available.

SECTION XII - Ecological Information

Lysine: LD50 = 10,000 mg/kg oral rat
LD50 = 4,019 mg/kg ipr rat.

SECTION XIII - Disposal Considerations

Dispose according to Federal, State and Local regulations.

SECTION XIV - Transport Information

As produced, the product is not regulated.

SECTION XV - Regulatory Information

No data available.

SECTION XVI - Other Information

Reason for update: Clarified product color.

If used as a flow agent in this product, silica gel is synthetic amorphous silica not to be confused with crystalline silica. Epidemiological studies indicate low potential for adverse health effects.

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