

MSDS



1. IDENTIFICATION OF PRODUCT AND MANUFACTURER

1.1. COMMERCIAL BRAND: BIOAMINO-L®

1.2. Type: Soil Amendment

1.3. Chemical Family: Active Organic Matter, Amino acids and polypeptides.

1.4. Manufacturer: Pesquera Pacific Star S.A.

1.5 RUT: 96.831.480-7

1.6 Address: Bernardino 1990 P. Industrial San Andrés. Puerto Mont, Chile.

1.7 Phone: +56 / 2 / 2676 3361

1.8 Distributor: Aminochem S.A.

1.9 RUT: 76.361.469-7

1.10 Address: Avda. Esquina Blanca 1117, Maipú - Santiago, Chile.

1.11 Phone: +56 22 676 3300

1.12 Phone in case of emergency: +56 65 248 8207

2. COMPOSITION

2.1. Chemical Name: Hydrolyzed Fish Protein (derived from salmon)

2.2. Composition: 24% w/w Polypeptides; 31% w/w Organic Matter; 2% w/w Fulvic acid; Amino acids; Soluble concentrate.

2.3. CAS #: Not applicable

2.4. UN #: Not classified

3. HAZARDS

3.1. Brand label: BIOAMINO-L®

3.2. Main Hazards: Not significant, but possibility of slight dermatitis if sensitive skin.

3.3. Human Hazards: Non-hazardous.

3.4. Environmental Hazards: None; product is non-hazardous and biodegradable.

3.5. Product: Non-toxic.

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4. EMERGENCY AND FIRST AID PROCEDURES

- 4.1 Inhalation: Minimal risk. In case of over exposition, move to fresh air. Obtain medical attention.
- 4.2 Skin: Remove contaminated clothing and wash affected skin with water.
- 4.3 Eyes: Immediately flush eyes with water for at least 15 minutes, holding eyelids open. Obtain medical attention if irritation persists.
- 4.4 Swallowing: Dilute by drinking large amounts of water. Do not induce vomiting. Get immediate medical assistance.

5. FIRE FIGHTING MEASURES

- 5.1 Hazard of Fire and Explosion: Low risk of flammability.
- 5.2 Safety equipment: Wear positive pressure self-contained breathing apparatus and full protective clothing.
- 5.3 Extinguishing Media: Water spray, foam, dry powder, CO₂.

6. SPILL OR LAEK PROCEDURES

- 6.1 Personal precautions: Keep persons not related with the emergency far away. Avoid inhalation, contact with skin and eyes. Use protective gloves.
- 6.2 Environmental protection: Avoid contamination of water sources with undiluted material.
- 6.3 Cleaning / recovery procedure: Contain spill, recover by absorbing on sand or clay and place in a container suitable for proper disposal. Clean with water.

7. HANDLING AND STORAGE

- 7.1 Handling: Keep areas ventilated. Keep procedures for handling of chemical products.
- 7.2 Prevention of fire and explosion: Keep far from fire which can heat the product.
- 7.3 Storage: Product must be stored on platform in cool and ventilated place with spill-proof guardrails.

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8. CONTROL TO EXPOSITION / PERSONAL PROTECTION

- 8.1 Complimentary indications for installations: Refer to 7.3.
- 8.2 Components which has limit value: Exposition limit: Not Assigned; TLV/TWA: Not assigned.
- 8.3 Complimentary indications: None.
- 8.4 General protection measures: discard and clean contaminated clothes, no value of ventilation is required.
- 8.5 Respiration: Mask suitable for organic vapor.
- 8.6 Hands: Neoprene or PVC gloves.
- 8.7 Eyes: Safety glasses or goggles; full face mask.

9. PHISICAL /CHEMICAL PROPERTIES

- 9.1 Appearance: Liquid
- 9.2 Color: Brown
- 9.3 Odor: Sea odor
- 9.4 pH (1g/L): 3.5-4
- 9.5 Freezing temp.: approx. 0 ° C
- 9.6 Boiling Temperature: > 100 ° C
- 9.7 Flashing Temperature: Not available.
- 9.8 Auto-flashing: No applicable
- 9.9 Flashing point: Not available.
- 9.10 Explosion hazard: No
- 9.11 Specific gravity: 1,15 g /cm³
- 9.12 Water solubility: Soluble in any ratio

10. STABILITY Y REACTIVITY

- 10.1 Stability: Stable in normal conditions.
- 10.2 Hazardous reactions: None.
- 10.3 Material to avoid: Strong oxidation agents and strong alkali.
- 10.4 Hazardous decomposition products: Not known.

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11. TOXICOLOGIC INFORMATION

11.1 Toxicity (acute): Non-Toxic.

11.2 Effects on health:

Skin: Possibility of dermatitis due to occasional contact is minimum.

Eyes: Can cause transient irritation.

Swallowing: No acute toxicity. May cause irritation in mouth, throat and digestive tract.

Inhalation: May cause irritation in respiratory tract if breathing protection is not used in closed environments.

12.- ECOLOGICAL INFORMATION

12.1 Mobility: Due to fact that product is liquid there is possibility of increased runoff. Avoid contamination of streams and waterways.

12.2 Air: Not applicable.

12.3 Water: Important solubility and mobility

12.4 Sediment: Important solubility and mobility

12.5 Bioaccumulation: None

13.- REGARDING DISPOSAL

This material must be disposed of according to Local disposal procedures. Dilute with large quantities of water. Containers washed by plenty of water can be recycled according the local recycling rules.

14.- INFORMATION REGARDING TRANSPORTATION

14.1. Land transportation DOT: Not classified as hazardous product for transportation

14.2. Shipping IMDG: Not classified as hazardous for transportation

14.3. Air transportation ICAO/IATA: Not classified as hazardous for transportation

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15. REGULATORY INFORMATION

- Do not eat, drink, and smoke during handling
- Always use personal protection: gloves and goggles.
- Wash with soap and water after application.
- May cause eye irritation.
- Keep out of reach of children.
- Do not store with food, feed or clothes.
- Do not store in homes.

16. OTHER INFORMATION

Indications are based on present knowledge and international norms; not be taken as warranty of properties of the product and do not generate any legally binding contract.