



1. IDENTIFICATION OF THE PRODUCT AND MANUFACTURER

- 1.1 Trade Name: AMINOROOT®
- 1.2 Type: Fertilizer/Biostimulant
- 1.3 Chemical Group: Nitrogen, Amino acids
- 1.4 Manufacturer: Pesquera Pacific Star SA
- 1.5 TAX ID N°: 96.831.480-8
- 1.6 Distributor: Amino Company Fertilizers And Chemicals SA
- 1.7 TAX ID N°: 76.361.469-7
- 1.8 Address: Bernardino 1.990 Parque Industrial San Andrés. Puerto Montt, Chile.
- 1.9 Phone: +56 / 2 / 26763361
- 1.10 Emergency Phone: +56 / 65 / 2488207

2. COMPOSITION/FORMATION OF COMPONENTS

- 2.1 Chemical Name: Hydrolyzed Protein.
- 2.2 Composition: Free Amino acids (8% w/w), Total Amino acids (15% w/w), active organic matter (15% w/w), plant extract (0,12% w/w), Total nitrogen (2.5%), Available phosphate (1%), Water Soluble Potassium (0,3%), Soluble Concentrate.
- 2.3 CAS N°: N/A
- 2.4 UN N°: Not classified

3. IDENTIFICATION OF HAZARDS

- 3.1 Brand label: AMINOROOT®
- 3.2 Main hazards: None significant, but might be characterized by the possibility of generating a slight dermatitis on sensitive skin.
- 3.3 Health hazards for people: None.
- 3.4 Environmental hazards: None; it is biodegradable.
- 3.5 Special hazards inherent in the product: Non-toxic.

4. FIRST AID

- 4.1 After inhaling: Minimum risk. In the event of an overdose, take the patient out into the open air. Drink water and then obtain medical assistance. If there has been over-exposure, take the patient out into the open air. Drink water and then obtain medical assistance.
- 4.2 After contact with skin: Wash the affected area immediately with abundant running water. Under the shower remove any clothes contaminated.
- 4.3 After contact with eyes: Wash IMMEDIATELY with abundant running water; obtain medical assistance if irritation persists.
- 4.4 After swallowing: If the person is conscious, abundant water must be drunk. DO NOT cause vomiting. Obtain medical assistance immediately.



5. FIRE-FIGHTING MEASURES

- 5.1 Risk of fire and explosion: Low flammability risk.
- 5.2 Special safety gear: Use respiratory protection equipment, helmet, gloves, safety boots and strong heat-resistant clothing.
- 5.3 Extinction methods: Pulverized water, foam, dry powder, carbon dioxide.

6. MEASURES TO BE TAKEN IN THE EVENT OF AN ACCIDENTAL SPILL

- 6.1 Individual Precautions: Remove anybody not related to the emergency away from the emergency. Avoid inhaling, contact with skin and eyes. Use proper gloves and protection for both eyes and face.
- 6.2 Protection measures regarding the environment: Avoid contaminating water courses with raw products.
- 6.3 Cleaning/recovering methods: Clean with one discharge of water. For large spills, contain them with dikes and recover using an inert absorbent (sand, earth, sawdust, etc.) and transfer to a suitable container for disposal as waste.

7. MANIPULATION AND STORAGE

- 7.1 Manipulation: Provide good ventilation. Normal measures are those appropriate for handling chemical products.
- 7.2 Prevention of fires and explosions: Keep all containers or bottles away from any sources of ignition or naked flames that could heat up the product.
- 7.3 Storage: All containers must be stored on a floor in an airy and well ventilated location where there are embankments for containing any spills of the product.

8. CONTROLLING INDIVIDUAL PROTECTION/EXPOSURE

- 8.1 Additional indications for providing proper technical installations: No further indications, but see point 7.3.
- 8.2 Components that have limits to be controlled per work station: Exposure Limit: Not assigned; TLV/TWA: Not assigned
- 8.3 Additional indications: None.
- 8.4 General protection and hygiene measures: Change any clothes contaminated and clean them before any subsequent use. No ventilation rates are required.
- 8.5 Respiratory protection: A proper face mask for Organic Vapors
- 8.6 Protecting hands: Protective neoprene or PVC gloves
- 8.7 Protecting eyes: Safety goggles or shades and a face mask that covers the whole of the face.

9. PHYSICAL-CHEMICAL PROPERTIES

- 9.1 Form: Liquid
- 9.2 Color: Brown
- 9.3 Odor: Marine
- 9.4 pH (1 gr/Lt): 3.5-4

- 9.5 Freezing point: approx. 0 ° C
- 9.6 Boiling point: > 100 ° C
- 9.7 Temperature of ignition: N/A.
- 9.8 Self-ignition: N/A
- 9.9 Point of ignition: N/A.
- 9.10 Danger of explosion: None present
- 9.11 Density: 1.06 gr. /cm³
- 9.12 Electrical conductivity: 0.5 mmhos/cm
- 9.13 Solubility in / miscibility with water: Soluble in all proportions.

10. STABILITY AND REACTIVITY

- 10.1 Stability: It is a stable product under normal conditions.
- 10.2 Hazardous reactions: None.
- 10.3 Materials to be avoided: Strong oxidizing agents and strong bases.
- 10.4 Hazardous decomposition products: None known

11. TOXICOLOGICAL INFORMATION

- 11.1 Acute toxicity: Not toxic.
- 11.2 Effects on people's health:
 - Skin: there exists the possibility of it causing dermatitis after a brief or occasional contact if minimal.
 - Eyes: Could cause temporary irritation.
 - Swallowing: Could causes the mouth, throat and digestive apparatus to become irritated, but no acute toxicity.
 - Inhaling: Could cause irritation of the respiratory tract as a result of not using it in auditory or closed protection areas.

12.- ECOLOGICAL INFORMATION

- 12.1 Mobility: As it is in a liquid state, increase spills over slopes and avoid the product reaching any water courses.
- 12.2 Air: N/A.
- 12.3 Water: Important, solubility and mobility.
- 12.4 Sediment: Important, solubility and mobility.
- 12.5 Potential bio-accumulation: None.

13.- CONSIDERATIONS RELATING TO ELIMINATION

In accordance with prevailing legislation and following Local Waste Disposal Regulations, dilute in a large amount of water and containers must be cleaned with abundant water, after which they may be reused or recycled in accordance with local laws.



14.- INFORMATION RELATING TO TRANSPORT

- 14.1 Transport over land DOT: This product is NOT classified as hazardous for transport.
- 14.2 Transport by sea IMDG: This product is NOT classified as hazardous for transport.
- 14.3 Transport by air ICAO/IATA: This product is NOT classified as hazardous for transport.

15. REGULATORY INFORMATION

Risk phrases:

- Do not eat, drink or smoke whilst handling the product
- Always use personal protection gear, such as gloves and protective goggles
- Wash with water and soap after applying
- Could irritate eyes
- Do not leave within the reach of children
- Do not store together with food, clothes or fodder
- Do not store inside homes
- Do not reuse the containers.

16. OTHER INFORMATION

These indications are basic, considering the current state of our knowledge and Chilean regulations, but they are not a guarantee as regards the properties of the product and they have no place in a legal contractual relationship.