



1. IDENTIFICATION OF THE PRODUCT AND MANUFACTURER

- 1.1 **Trade Name:** AMINOROOT®
- 1.2 **Type:** Root Biostimulant
- 1.3 **Chemical Group:** Free Amino Acids, Plant Origin Extracts, Organic Matter, Ac. Fulvic
- 1.4 **Manufacturer:** Pesquera Pacific Star S.A.
- 1.5 **TAXID N°:** 96.831.480-8
- 1.6 **Distributor:** Amino Company Fertilizers and Chemicals S.A.
- 1.7 **TAXID 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

- 2.1 **Chemical Name:** Free Amino Acids, Plant Origin Extracts, Organic Matter, Ac.Fulvic.
- 2.2 **Composition:** Free Amino Acids (8%p/p), Plant Extracts (0.12% w/w), Ac. Fulvic (9.5% w/w), Active organic matter (15% w/w), Total Nitrogen (2.5%), Total Phosphorus (1%), Potassium (0.3%) + ME; Soluble Concentrate.
- 2.3 **CAS N°:** N/A
- 2.4 **UN N°:** Not classified

3. HAZARDS

- 3.1 **Brand label** AMINOSOILPREMIUM®
- 3.2 **Main hazards:** None significant but might be characterized by the possibility of generating a slight dermatitis on sensitive skin.
- 3.3 **Hazards to human health:** 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.
- 4.2 **After contact with skin:** Wash the affected area immediately with abundant running water. Under the shower remove any clothescontaminated.
- 4.3 **After contact with eyes:** Wash IMMEDIATELY with abundant running water for 15 minutes; 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. ACCIDENTAL RELEASE MEASURES

- 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 workstation:** 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 g/L):** 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 g/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 cause 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 national and international regulations, but they are not a guarantee as regards the properties of the product and they have no place in a legal contractual relationship.