

# MATERIAL SAFETY DATA SHEET

SEA-CROP, A Natural Soil Amendment

DATE:2/15/06

MSDS

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## SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

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PRODUCT NAME: Sea-Crop  
PRODUCT NUMBER: 00101  
CHEMICAL NAME: Seawater  
PRODUCT USE: Soil Amendment

MANUFACTURER: Ambrosia Technology LLC  
ADDRESS: PO Box 6, Raymond, WA 98577  
PHONE: 360-942-5698

PREPARED BY: Arthur Zeigler, Director of Research, Ambrosia Technology LLC

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## SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

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### INGREDIENTS:

Contains the 90 natural source elements of standard seawater, less some gases and a reduction in sodium.  
Major minerals (Cl, Mg, Na, Ca,S, Br, K, I, B, Sr, Si) =19.009% by weight.  
Trace minerals (other elements) = 0.001% by weight.  
Other substances (dissolved inorganic and organic carbon, particulates, atmospheric gases) = 1% by weight.  
The seawater is concentrated to a nutrient liquor.  
Therefore, solids/minerals =20.0% and water = 80.0% by weight.

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## SECTION 3: HAZARDOUS INGREDIENTS

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### EMERGENCY OVERVIEW

None

### Potential Health Effects

Route(s) Of Entry: Inhalation, Skin, Ingestion.

Human Effects and Symptoms of Overexposure: Ingestion of large amounts can cause gastrointestinal upset and irritation of the stomach. No applicable information found for chronic systemic effects.

Acute Inhalation: Mist may cause slight irritation of nose; unlikely entry route.

Chronic Inhalation: Not Applicable

Acute Skin Contact: May cause minor irritation to sensitive persons.

Chronic Skin Contact: Not Applicable

Acute Eye Contact: Irritation; inflammation.

Chronic Eye Contact: Not Applicable

Acute Ingestion: May cause nausea or vomiting.

Chronic Ingestion: Not Applicable

Carcinogenicity

NTP: Not listed as a carcinogen or mutagen.

IARC: Not listed as a carcinogen or mutagen.

OSHA: Not listed as a carcinogen or mutagen.

Medical Conditions Aggravated by Exposure: Possible skin irritation to sensitive persons.

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## SECTION 4: FIRST AID MEASURES

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### EFFECTS OF OVEREXPOSURE/EMERGENCY AND FIRST AID PROCEDURES:

**First Aid For Eyes:** For eye contact, flush eyes with large amounts of water, lifting eyelids occasionally.

**First Aid For Skin:** Flush with water.

**First Aid For Inhalation:** Remove to fresh air. Inhalation is an unlikely entry route.

**First Aid For Ingestion:** Less than a few grams would not be harmful. For larger quantities, drink large amounts of water or milk.

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## SECTION 5: FIRE-FIGHTING MEASURES

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Flash Point: Not Applicable

Extinguishing Media: Not Applicable. This product is nonflammable.

Special Fire Fighting Procedures: May use a self-contained breathing apparatus if temperatures exceed 300 degrees F. (149 degrees C.).

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## SECTION 6: ACCIDENTAL RELEASE MEASURES

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Flash Point: Not Applicable

Extinguishing Media: Not Applicable. This product is nonflammable.

Special Fire Fighting Procedures: May use a self-contained breathing apparatus if temperatures exceed 300 degrees F. (149 degrees C.).

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## SECTION 7: HANDLING AND STORAGE

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**Storage Temperature (min./max.):**

**Handling and Storage Precautions:** Prolonged storage or subjecting the materials to temperatures below 30 degrees F. (-1 degree C.) can result in the formation of magnesium sulfate crystals. May evolve chlorine gas when in contact with strong acids or upon heating above 300 degrees F (149 degrees C.) Under normal applications, decomposition should not occur. Incompatible with sulfuric and nitric acids, caustics, ammonia and cyanides. A hazardous reaction involving magnesium chloride and 2-furan percarboxylic acid has been reported. Avoid storing in sunlight. UV rays may reduce product effectiveness.

**Special Sensitivity:** Do not apply directly to plant foliage or root zones, as concentrated magnesium chloride solutions may cause partial or complete defoliation.

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## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

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**Eye Protection Requirements:** Eyeglasses or goggles may be worn.

**Skin Protection Requirements:** Normal work gloves are adequate. Protective clothing may be worn, but is generally not required. Warm water showering and handwashing is suggested, if in direct contact with product, but is generally not required.

**Respiratory/Ventilation Requirements:** Not Necessary

**Exposure Limits:** Not Applicable

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## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

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Boiling Point:	212 °F
% Volatile by Weight:	N/A
Vapor Density:	Estimated lighter than air
Vapor Pressure (mm Hg):	Not Determined
Solubility In Water:	Soluble
Flash Point:	N/A
Specific Gravity (H2O=1):	1.12
Explosive Limits:	N/A
Appearance and Odor:	Clear liquid, no odor
Extinguishing Media:	N/A
pH	7.0 to 7.5
Unusual Fire Explosion Hazards:	None

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## SECTION 10: STABILITY AND REACTIVITY

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Stability:	Stable
Hazardous Polymerization:	Will not occur
Hazardous Decomposition Products:	None
Incompatibility:	None

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## SECTION 11: TOXICOLOGICAL INFORMATION

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Product is non-toxic.

**Ecotoxicity:** Not Listed

**Environmental Degradation:** Not Listed

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## SECTION 12: ECOLOGICAL INFORMATION

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Ecotoxicity: Not Listed

Environmental Degradation: Not Listed

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## SECTION 13: DISPOSAL CONSIDERATIONS

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**.Waste Disposal Method:** For disposal of this material as a waste, act in accordance with all applicable Federal, state, and local waste management regulations.

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## SECTION 14: TRANSPORTATION INFORMATION

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**US DOT; IATA; IMO; ADR:**

THIS PRODUCT IS NOT HAZARDOUS AS DEFINED BY 49 CFR 172.101 BY THE U.S. DEPARTMENT OF TRANSPORTATION.

PROPER SHIPPING NAME: Non-Regulated Material

HAZARD CLASS NUMBER and DESCRIPTION: Not Applicable

UN IDENTIFICATION NUMBER: Not Applicable PACKING GROUP: Not Applicable.

DOT LABEL(S) REQUIRED: Not Applicable

NORTH AMERICAN EMERGENCY RESPONSE GUIDEBOOK NUMBER (2004): Not Applicable

MARINE POLLUTANT: None of the ingredients are classified by the DOT as a Marine Pollutant (as defined by 49 CFR 172.101, Appendix B)

U.S. DEPARTMENT OF TRANSPORTATION (DOT) SHIPPING REGULATIONS:

This product is not classified as dangerous goods, per U.S. DOT regulations, under 49 CFR 172.101.

TRANSPORT CANADA, TRANSPORTATION OF DANGEROUS GOODS REGULATIONS:

This product is not classified as Dangerous Goods, per regulations of Transport Canada.

INTERNATIONAL AIR TRANSPORT ASSOCIATION (IATA):

This product is not classified as Dangerous Goods, by rules of IATA:

INTERNATIONAL MARITIME ORGANIZATION (IMO) DESIGNATION:

This product is not classified as Dangerous Goods by the International Maritime Organization.

EUROPEAN AGREEMENT CONCERNING THE INTERNATIONAL CARRIAGE OF DANGEROUS GOODS BY ROAD (ADR):

This product is not classified by the United Nations Economic Commission for Europe to be dangerous goods.

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## SECTION 15: REGULATORY INFORMATION

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OSHA Status: Not Listed

TSCA Status: Not Listed

Cercla reportable Quantity

SARA Title III

Section 302 Extremely

Hazardous Substances: Not Listed

Section 311/312

Hazard categories: Not Listed

Section 313

Toxic Chemicals: Not Listed

RCRA Status: Not Listed

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## SECTION 16: OTHER INFORMATION

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**DISCLAIMER:** All information, recommendations and suggestions appearing herein concerning our products are based upon tests and data believed to be reliable. However, it is the user's responsibility to determine the safety, toxicity and suitability for his/her own use of the product described herein. Since the actual use by others is beyond our control, we make no guarantee, expressed or implied, as to the effects of such use, the results to be obtained, or the safety and toxicity of the product; nor do we assume any liability arising out of use, by others, of the product referred to herein. The information herein is not to be construed as absolutely complete since additional information may be necessary or desirable when particular or exceptional conditions or circumstances exist or because of applicable laws or government regulations.