



# American International Chemical, Inc.

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## MATERIAL SAFETY DATA SHEET

### ALGINIC ACID

Date: August 2007

Synonyms: Alginic Acid

CAS #: 9005-32-7

DOT Hazard Class: Not Regulated

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#### SECTION 2 - COMPOSITION AND INFORMATION ON INGREDIENTS

Alginic Acid is a white to tan powder. Alginic Acid is a hydrophilic colloidal carbohydrate extracted with dilute alkali from various species of brown seaweeds.

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#### SECTION 3 - HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW: Appearance and Odor: A white to tan powder with a slight odor.

SLIP HAZARD IF WET: Surfaces that may be covered by the product will become extremely slippery upon application of water.

#### POTENTIAL HEALTH EFFECTS:

**Skin:** May cause skin irritation. Prolong contact with the dry powder may cause drying or chapping of the skin.

**Eyes:** May cause irritation or burning.

**Inhalation:** Inhalation of the dust may cause coughing and sneezing.

**Ingestion:** Not toxic if swallowed based on toxicity studies of the components. No significant adverse health effects are expected to develop if only small amounts (less than a mouthful) are swallowed.

Refer to Section 11 for toxicological information.

CARCINOGENICITY: Not Identifiable

#### **SECTION 4 - FIRST AID MEASURES**

**Skin:** Immediately wash skin with soap and water for at least 15 minutes.

**Eyes:** Immediately flush with plenty of water for at least 15 minutes, holding eye lids apart.

**Inhalation:** Remove to the fresh air. If not breathing give artificial respiration. If breathing is difficult, give oxygen.

**Ingestion:** Wash out mouth with water.

**On All Of The Above:** Consult a physician if symptoms persist.

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#### **SECTION 5 - FIRE FIGHTING MEASURES**

Flash Point: Non Combustible

Flammable Limits: Non Combustible

Extinguishing Media: In case of fire, use water, dry chemical, CO<sub>2</sub>, or alcohol foam.

Special Fire Fighting Procedures:

Use fire fighting procedure that is appropriate to treat surrounding fire. All firefighters should use self-contained breathing apparatus and full fire-fighting turn-out gear.

Unusual Fire Explosion Hazard: None Known

Auto Ignition Temperature: Not Applicable

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#### **SECTION 6 - ACCIDENTAL RELEASE MEASURES**

In case of spill, do not blow material. Use vacuum equipment designed specifically for handling combustible dusts.

Note: The use of water wash down is not recommended unless the spilled material is already wet. Wet material on a walking surface will be extremely slippery. Wet spills should be thoroughly flushed with water until non-slippery.

Refer to Section 13 for disposal information and Section 15 for reportable quantity information.

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#### **SECTION 7 - HANDLING AND STORAGE**

Avoid contact with skin, eyes and clothing. Use with adequate ventilation. Avoid breathing dust. Use normal personal hygiene and housekeeping. Store in cool dry area away from other incompatible materials. Keep away from heat, sparks and flame. Avoid creating dust cloud in handling, transfer and clean up.

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#### **SECTION 8 - EXPOSURE CONTROLS, PERSONAL PROTECTION**

**RESPIRATORY PROTECTION:** Use NIOSH/MSHA approved respirators.

**VENTILATION REQUIREMENTS:** Ventilate as necessary to eliminate dust from the work area and maintain concentrations below the limit.

**SKIN AND EYE PROTECTION:** Use rubber or neoprene gloves, chemical goggles and clothing sufficient to protect skin from dust.

**WORK, HYGIENIC PRACTICES:**

As required to protect skin and eyes from dust, safety showers and/or eye wash should be available. Do not leave food or smoke in work area. Wash thoroughly and remove or clean any contaminated clothing.

EXPOSURE LIMITS: None Established

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## **SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES**

Appearance: White to tan powder.

Odor: Slight

Vapor Pressure (MM Hg): Not Applicable

Vapor Density (AIR=1): Not Applicable

Specific Gravity (H<sub>2</sub>O=1): Not Available

Percent Volatile by Volume (%): Not Applicable

Melting Point: Not Applicable

Evaporation Rate (Butyl Acetate=1): Not Applicable

Solubility in Water: Insoluble, absorbs water and swells.

Solubility in Other solvents: Soluble in alkaline solution and forming viscous solution.

pH: Approximately 3 ( as a 3% suspension)

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## **SECTION 10 - STABILITY AND REACTIVITY**

CHEMICAL STABILITY: Stable under normal temperatures and pressures.

HAZARDOUS POLYMERIZATION: Will not occur under normal conditions.

HAZARDOUS DECOMPOSITION PRODUCTS: Thermal decomposition products may include carbon dioxide and carbon monoxide.

KEEP AWAY FROM: Strong oxidizers.

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## **SECTION 11 - TOXICOLOGICAL INFORMATION**

May be harmful, by inhalation, ingestion or skin absorption. May cause eye irritation. May cause skin irritation. The chemical, physical and toxicological properties have not been thoroughly investigated.

Oral- rat LD50: > 5,000 mg/kg; practically non-toxic  
Inhalation – rat LC50 (1hr): > 2.5 mg/l  
Eye Irritation – rabbit: non irritating  
Skin Irritation – rabbit: non irritating

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**SECTION 12 - ECOLOGICAL INFORMATION**

Not Available

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**SECTION 13 - DISPOSAL CONSIDERATIONS**

Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber. Observe all federal, state and local environmental regulations.

RCRA WASTE #: Not Listed

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**SECTION 14 - TRANSPORTATION INFORMATION**

D.O.T. SHIPPING NAME: Alginic Acid

This product is not hazardous under the applicable DOT, ICAO/IATA and IMDG regulations.

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**SECTION 15 - REGULATORY INFORMATION**

OSHA STATUS: Refer to Section 11 for OSHA Hazardous Chemical(s) and Section 13 for RCRA classification

TSCA STATUS: Listed

CERCLA REPORTABLE REQUIREMENTS: Not Applicable

SARA TITLE III INFORMATION:

Section 302 Extremely Hazardous Substance Not Applicable

Section 313 Toxic Chemicals: Not Applicable

Section 311/312 Hazard Category: Not considered a Hazard.

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**SECTION 16 - OTHER INFORMATION**

	<i>Health</i>	<i>Fire</i>	<i>Reactivity</i>
<b><i>NFPA Rating</i></b>	<b><i>0</i></b>	<b><i>1</i></b>	<b><i>0</i></b>
<b><i>HMIS Rating</i></b>	<b><i>0</i></b>	<b><i>1</i></b>	<b><i>0</i></b>

Reason for Issue: Changed Date

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