

**MSDS****MATERIAL SAFETY DATA SHEET**

RUPERT, GIBBON &amp; SPIDER PO BOX 425, HEALDSBURG CA, 95448 TEL: (707) 433-9577 FAX: (707) 433-4906

**Sodium Alginate SH****MSDS No:** 001**Date:** 01/29/2013**1. PRODUCT AND COMPANY IDENTIFICATION**

**PRODUCT NAME:** Sodium Alginate  
**CHEMICAL FAMILY:** Polysaccharide  
**MOLECULAR FORMULA:**  
**SYNONYMS:** Algin (INCI name), alginic acid, sodium salt  
**GENERAL USE:** Industrial – Paper

**MANUFACTURER**

Rupert, Gibbon & Spider Inc.  
1147 Healdsburg Ave  
Healdsburg, CA 95448  
800-442-0455

**EMERGENCY TELEPHONE NUMBERS**

(800) 424-9300 (CHEMTREC - U.S.)  
(202) 483-7616 (CHEMTREC - All Other Countries)

**2. HAZARDS IDENTIFICATION****EMERGENCY OVERVIEW:**

- Yellowish to light-brown, almost odorless, free-flowing powder.
- Powder becomes slippery when wet.
- Accumulation of overhead settled dust may form explosive concentrations in air when disturbed and dispersed.

**POTENTIAL HEALTH EFFECTS:** No significant health effects expected.

**3. COMPOSITION / INFORMATION ON INGREDIENTS**

<b>Chemical Name</b>	<b>CAS#</b>	<b>Wt.%</b>	<b>EC No.</b>	<b>EC Class</b>
Sodium alginate	9005-38-3		None	Not classified as hazardous

**4. FIRST AID MEASURES**

**EYES:** Flush with plenty of water. Get medical attention if irritation occurs and persists.

**SKIN:** Wash with plenty of soap and water.

**INGESTION:** Drink 1 or 2 glasses of water. Never give anything by mouth to an unconscious person. If any discomfort persists, obtain medical attention.

**INHALATION:** Remove to fresh air. If breathing difficulty or discomfort occurs and persists, obtain medical attention.

**NOTES TO MEDICAL DOCTOR:** This product has low oral and inhalation toxicity. It is not a skin sensitizer and is non-irritating to the skin and eyes. It is expected to have low dermal toxicity. Aspiration or inhalation of this product could cause chemical pneumonitis. Treatment is symptomatic and supportive.

**5. FIRE FIGHTING MEASURES**

**EXTINGUISHING MEDIA:** Water, foam, dry chemical, CO2

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**FIRE / EXPLOSION HAZARDS:** As with most organic materials, excessive accumulation of dust on overhead structures may produce explosive concentrations when disturbed and dispersed by a small explosion that shakes down accumulated dust and causes, momentarily, an ignitable concentration. Product will burn when in contact with a flame, but self-extinguishes when ignition source is removed.

**FIRE FIGHTING PROCEDURES:** None. Treat as "Class A" fire. Once ignited, the product tends to smolder.

**FLAMMABLE LIMITS:** Not applicable

**6. ACCIDENTAL RELEASE MEASURES**

**RELEASE NOTES:** Powder becomes slippery when wet. Maintain good housekeeping practices to minimize accumulation of settled dust, especially on overhead surfaces. Sweep up the spilled material and dispose of in accordance with the waste disposal method outlined in Section 13, "Disposal Considerations".

**7. HANDLING AND STORAGE**

Use local exhaust or general dilution ventilation to control exposure to dust. Always use safe lifting techniques when manually moving containers, especially when handling containers weighing more than 50 pounds (22.7 kg). To protect quality, store in a tight container in a cool, dry place. Avoid exposure to excessive heat.

**8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

**ENGINEERING CONTROLS:** Use local exhaust, which is sufficient enough to remove airborne dust.

**PERSONAL PROTECTIVE EQUIPMENT**

**EYES AND FACE:** Whenever airborne dust concentrations are high, appropriate protective eyewear, such as mono-goggles, should be worn to prevent eye contact.

**RESPIRATORY:** Whenever dust in the worker's breathing zone cannot be controlled with ventilation or other engineering means, workers should wear respirators or dust masks approved by NIOSH/MSHA, EU CEN or comparable certification organization to protect them against airborne dust.

**PROTECTIVE CLOTHING:** No special clothing is required.

**GLOVES:** No special gloves are required.

**COMMENTS:****EXPOSURE LIMITS:**

Particulates Not Otherwise Classified (PNOC):

ACGIH/TWA

10 mg/m<sup>3</sup> (inhalable particulate)

3 mg/m<sup>3</sup> (respirable particulate)

**9. PHYSICAL AND CHEMICAL PROPERTIES**

**ODOR:** Almost odorless

**APPEARANCE:** Yellowish to light-brown, free-flowing powder

**AUTOIGNITION TEMPERATURE:** > 200 °C (> 392 °F)

**BOILING POINT:** None volatile

**EVAPORATION RATE:** (Butyl acetate = 1) Not applicable

**FLASH POINT:** Not applicable

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**MELTING POINT:** Not available  
**PERCENT VOLATILE:** Not available  
**pH:** 6.5 - 8.5 (1% aqueous solution)  
**SOLUBILITY IN WATER:** Slowly soluble, forming a viscous, colloidal solution  
**VAPOR DENSITY:** Not available  
**VAPOR PRESSURE:** Not available

**10. STABILITY AND REACTIVITY**

**CONDITIONS TO AVOID:** Strong oxidizing agents, high temperatures and high humidity levels.

**STABILITY:** Stable

**POLYMERIZATION:** Will not occur

**HAZARDOUS DECOMPOSITION PRODUCTS:** None known

**11. TOXICOLOGICAL INFORMATION**

**EYE EFFECTS:** Non-irritating (rabbit)

**SKIN EFFECTS:** Non-irritating (rabbit)

**DERMAL LD50:** No data available for the product.

**ORAL LD50:** > 5,000 mg/kg (rat)

**INHALATION LC50:** 4.72 mg/l (1 h) (rat)

**SENSITIZATION:** (Skin) Non-sensitizing (guinea pig)

**ACUTE EFFECTS FROM OVEREXPOSURE:** This product has low oral and inhalation toxicity. It is not a skin sensitizer and is non-irritating to the skin and eyes. It is expected to have low dermal toxicity. Large quantities of this product may cause intestinal obstruction. Aspiration or inhalation could cause chemical pneumonitis.

**CHRONIC EFFECTS FROM OVEREXPOSURE:** Sodium alginate showed no adverse effects in chronic studies when administered in the diet (5 - 15%). No further data are available. The Joint WHO/FAO Expert Committee on Food Additives (JECFA) has granted an Acceptable Daily Intake (ADI) of "not specified" (no upper limit), the best possible classification for food additives (JECFA, 39th session of 23/12 February 1992).

**CARCINOGENICITY:**

**NTP:** Not listed

**IARC:** Not listed

**OSHA:** Not listed

**OTHER:** ACGIH: Not listed

**12. ECOLOGICAL INFORMATION**

**ENVIRONMENTAL DATA:** Sodium alginate is biodegradable, and is not expected to have significant environmental effects.

**ECOTOXICOLOGICAL INFORMATION:** No data available for the product; however, no significant effects on aquatic organisms are expected.

**13. DISPOSAL CONSIDERATIONS**

**DISPOSAL METHOD:** No special disposal methods are suggested. It is the user's responsibility to comply with all applicable local, state, and federal laws, rules, regulations and standards.

**NOTE:** Handle as a non-hazardous material

**BOD(5) :** approximately 400 mg O<sub>2</sub>/g

**COD :** approximately 650 mg O<sub>2</sub>/g

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**14. TRANSPORT INFORMATION****U.S. DEPARTMENT OF TRANSPORTATION (DOT)****MARINE POLLUTANT:** None**ADDITIONAL INFORMATION:** Not listed in Title 49 of the U.S. Code of Federal Regulations as a hazardous material. Stabilizer / emulsifier; water soluble, dry**INTERNATIONAL MARITIME DANGEROUS GOODS (IMDG)****ADDITIONAL INFORMATION:** Not regulated**ADR - EUROPEAN AGREEMENT CONCERNING THE INTERNATIONAL CARRIAGE OF DANGEROUS GOODS BY ROAD****ADDITIONAL INFORMATION:** Not regulated**INTERNATIONAL CIVIL AVIATION ORGANIZATION (ICAO) /****INTERNATIONAL AIR TRANSPORT ASSOCIATION (IATA)****ADDITIONAL INFORMATION:** Not regulated

Canada (TDG) : Not applicable

**15. REGULATORY INFORMATION****UNITED STATES****SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT)****SECTION 302 EXTREMELY HAZARDOUS SUBSTANCES (40 CFR 355, APPENDIX A):**

Not listed

**SECTION 311 HAZARD CATEGORIES (40 CFR 370):**

Not applicable

**SECTION 312 THRESHOLD PLANNING QUANTITY (40 CFR 370):**The Threshold Planning Quantity (TPQ) for this product, if treated as a mixture, is 10,000 lbs; however, this product contains the following ingredients with a TPQ of less than 10,000 lbs.:  
None**SECTION 313 REPORTABLE INGREDIENTS (40 CFR 372):**

This product does not contain any toxic chemicals subject to the reporting requirements of Section 313, Title III of the SARA (Superfund Amendments and Reauthorization Act) of 1986.

**CERCLA (COMPREHENSIVE ENVIRONMENTAL RESPONSE COMPENSATION AND LIABILITY ACT)****CERCLA DESIGNATION & REPORTABLE QUANTITIES (RQ) (40 CFR 302.4):** Not listed**TSCA (TOXIC SUBSTANCE CONTROL ACT)****TSCA INVENTORY STATUS (40 CFR 710):** Listed**CANADA****WHMIS (WORKPLACE HAZARDOUS MATERIALS INFORMATION SYSTEM):**

Domestic Substance List: Listed

**E NUMBERS:**

E 401(sodium alginate)

**INTERNATIONAL LISTINGS**

Australia (AICS): Listed

China: Listed

Japan (ENCS): (8)-237

Korea: KE-00492

Philippines (PICCS): Listed

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**16. OTHER INFORMATION****NFPA**

Health 2

Flammability 1

Reactivity 0

Special None

No special requirements

NFPA = National Fire Protection Association

Degree of Hazard Code:

4 = Extreme

3 = High

2 = Moderate

1 = Slight

0 = Insignificant

*The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall Rupert, Gibbon & Spider Inc. be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if Rupert, Gibbon & Spider Inc. has been advised of the possibility of such damages.*