



# Material Safety Data Sheet

## Calcium Alginate MSDS

### 1. SUBSTANCE IDENTIFICATION

- 1.1. Product Name: [Calcium Alginate](#)
- 1.2. Description: Calcium Alginate is a organic compound manufactured through chemical synthesis.
- 1.3. Chemical Formula: (C<sub>12</sub>H<sub>14</sub>CaO<sub>12</sub>)<sub>n</sub>
- 1.4. Molecular weight: Not available
- 1.5. CAS #: 9005-35-0
- 1.6. EINECS #:
- 1.7. Manufactured by: Foodchem International Corporation, Shanghai China.
- 1.8. Supplied by: Foodchem International Corporation, Shanghai China.
- 1.9. Usage: In food as Thickeners

### 2. Composition

- 2.1. Calcium Alginate: 89.6%- 104.5%
- 2.2. Hazardous impurities: Heavy Metals 20PPM, Arsenic 3PPM, Lead 5PPM, Sulfate 28- 36%

### 3. Physical/Chemical Characteristics

- 3.1. Physical State: Powder
- 3.2. Appearance: white to yellowish brown filamentous, grainy, powder
- 3.3. Odor: Not available
- 3.4. pH: 6.0 - 9.5
- 3.5. Melting point/range: Not available
- 3.6. Boiling point: Not available
- 3.7. Bulk density: Not available
- 3.8. Solubility: Insoluble

### 4. Stability/Reactivity

- 4.1. Chemical Stability: Stable under normal temperatures and pressures
- 4.2. Shelf Life: 24 months period
- 4.3. Hazardous decomposition: Carbon oxides (CO, CO<sub>2</sub>)
- 4.4. Hazardous polymerization: Will not occur
- 4.5. Incompatible with: Oxidizing agents.

### 5. Handling/Storage

- 5.1. Storage: Store in a cool, dry, ventilated area away from sources of heat, moisture and incompatibilities.
- 5.2. Handling precaution: Keep away from heat. Keep away from sources of ignition. Empty containers pose a fire risk, evaporate the residue under a fume hood. Ground all equipment containing material. Do not ingest. Do not breathe dust.

### 6. Exposure Control

- 6.1. Engineering Controls: Safety shower and eye bath. Provide exhaust ventilation or other engineering controls to keep the airborne concentrations below their respective threshold limit value.
- 6.2. Respiratory protection: NIOSH/MSHA or European Standard EN 149 approved respirator
- 6.3. Eye Protection: Protective eyeglasses or chemical safety goggles
- 6.4. Skin Protection: Wear appropriate protective gloves and clothes to minimize skin contact.
- 6.5. Other: Consult professionals if Calcium Alginate need to be handled under some special conditions.



## 7. Hazards Identification

- 7.1. Hazardous overview: Calcium Alginate is Slightly hazardous in case of inhalation, skin contact, ingestion or eye contact.
- 7.2. Contact with eyes: May cause eye irritation.
- 7.3. Contact with skin: May cause skin irritation.
- 7.4. Ingestion: May cause irritation of the digestive tract.
- 7.5. Inhalation: May cause respiratory tract irritation.
- 7.6. Other: Not Applicable

## 8. First Aid Measures

- 8.1. Contact with eyes: Flush immediately with plenty of water for 15 minutes and seek medical advice
- 8.2. Contact with skin: Wash the affected area with water, remove contaminated clothing and launder before re-use. Seek medical advice if irritation develops or persists.
- 8.3. Ingestion: Rinse mouth thoroughly with water and drink water afterwards.
- 8.4. Inhalation: Remove from exposure, move to fresh air and seek medical advice immediately.

## 9. Fire and Explosion Data

- 9.1. General information: May be combustible at high temperature.
- 9.2. Flash point: Not available
- 9.3. Ignition control: Avoid ignition sources where calcium alginate dust might be generated
- 9.4. Dust control: Keep the handling area with adequate ventilation
- 9.5. Extinguishing Media: Water spray, dry chemical or carbon dioxide
- 9.6. Spills/Leaks: Vacuum or sweep up material and place into a suitable disposal container

## 10. Transport Information

- 10.1. No special requirements and no restrictions on transportation by land, sea or air.

## 11. Ecological Information

- 11.1. Calcium alginate is fully biodegradable.

## 12. Other Information

- 12.1. This Safety Data Sheet of Calcium Alginate is based upon a limited review of Foodchem International Corporation files and standard Toxicological handbooks. 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 Foodchem International Corporation 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 Foodchem International Corporation has been advised of the possibility of such damages.

Website:<http://www.foodchemadditives.com>

E-Mail: [inquiry@foodchem.cn](mailto:inquiry@foodchem.cn)  
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