

635 SOUTH ELMWOOD AVENUE  
P.O. BOX 4076  
DAVENPORT, IOWA 52808  
EMERGENCY PHONE 563-324-3381

## Material Safety Data Sheet

Effective date: 5/18/2009  
Revision:2

Print date: 5/18/2009

**NFPA: Health 1, Fire 0, Reactivity 0**

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### 1. INGREDIENTS:

**CHEMICAL NAME:**

Calcium Carbonate (Limestone)  
Calcium Chloride

**CAS#:**

00471-34-1  
10043-52-4

### 2. HEALTH HAZARD DATA:

EYES:

May cause slight irritation with mechanical injury only. Effects may be slow to heal. When dissolving, the heat produced may cause more intense effects as well as thermal burns. Dust formation should be limited.

SKIN CONTACT:

Short single exposure is not likely to cause significant skin irritation. Prolonged or repeated exposure may cause skin irritation, even a burn if skin is damp or abraded (CaCl<sub>2</sub> only).

INHALATION:

Vapors are unlikely due to physical properties. Dust may cause irritation to upper respiratory tract, nose and throat.

INGESTION:

Single dose oral toxicity is low. Ingestion may cause gastrointestinal irritation or ulceration. Small amounts swallowed incidental to normal handling operations are not likely to cause injury; swallowing amounts larger than that may cause injury. Do not induce vomiting, give one cup water or milk if available and seek medical attention.

TOXICITY TO ANIMALS:

Acute oral toxicity (LD50) = 900- 2100 mg/kg (RAT).

SYSTEMIC (other target organs) EFFECTS:

The components of this product are not listed by IARC, NTP, or OSHA as carcinogen for hazard communication purposes.

MUTAGENIITY:

Results of in vitro (test tube) mutagenicity tests have been negative.

### 3. FIRST AID:

EYE CONTACT:

Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses after the initial 1-2 minutes and continue flushing with cold water. Obtain medical attention if irritation persists, preferably an ophthalmologist.

SKIN CONTACT:

Wash with soap and water. Obtain medical attention if irritation persists. Cold water may be used.

INHALATION:

Remove to fresh air. If not breathing give artificial respiration, preferably mouth to mouth. If breathing is difficult, give oxygen. Call a physician.

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INGESTION:

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If swallowed, do not induce vomiting. Give large amounts of water or milk if available and transport to medical facility.

NOTE TO PHYSICIAN:

If burn is present, treat as any thermal burn, after decontamination. No specific antidote. Supportive care. Treatment based on judgment of the physician in response to reactions of the patient.

### 4. FIRE AND EXPLOSION HAZARD DATA:

FLASH POINT:	Not available
FLAMMABLE LIMITS:	Not available
EXTINGUISHING MEDIA:	Use extinguishing media suitable for surrounding materials.
FIRE FIGHTING PROCEDURES:	Firefighters should wear positive pressure self-contained breathing apparatus (SCBA) and full turn out gear.
UNUSUAL FIRE & EXPLOSION HAZARDS:	Not available

### 5. ACCIDENTAL RELEASE MEASURES:

See section 14 for Regulatory & Shipping Information.

#### PROTECTING THE ENVIRONMENT:

SMALL SPILLS:	Incorrect application of this product from its intended uses is not expected to be harmful to the environment.
CLEAN UP:	Contain spill if possible. Collect material in a suitable and properly labeled container and flush area with plenty of water.
LARGE SPILLS:	Avoid contamination of drinking water, natural water ways, or ground water supply. Incorrect application of this product from its intended use is not expected to be harmful to the environment.
CLEAN UP:	Dike spill and transfer to suitable and properly labeled containers. Flush residue with plenty of water.

### 6. SAFE HANDLING AND STORAGE PRECAUTIONS:

HANDLING:	Refer to Exposure Controls/Personal Protection, Section 7 of this MSDS.
STORAGE:	Keep containers tightly closed when not in use. Store in a dry place. Protect from atmospheric moisture.

### 7. EXPOSURE CONTROLS/PERSONAL PROTECTION:

VENTILATION:	Provide general and/or local exhaust ventilation to control airborne levels below the exposure guidelines.
RESPIRATORY PROTECTION:	Atmospheric levels should be maintained below the exposure guidelines. If respiratory protection is required, use an approved air purifying respirator. In dusty atmospheres, use an approved dust respirator.
PROTECTIVE CLOTHING:	Use protective clothing imperative to this material. Selection of specific items such as face shield, gloves, boots, apron or full body

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suit will depend on operations. Remove contaminated clothing immediately, wash skin area with soap and running cold water. Launder any contaminated clothing before reuse.

EYE PROTECTION: Wear a face shield, safety glasses or chemical goggles.

### 8. PHYSICAL DATA:

MELTING POINT:	approx. 345F, 174C (Calcium Chloride)
BOILING POINT:	347F, 175C (Calcium Chloride)
VAPOR PRESSURE	1.0 mmHg @ 20C, 68F (Calcium Chloride)
VAPOR DENSITY	Not applicable
SPECIFIC GRAVITY	2.61
SOLUBILITY IN WATER	Very soluble (Calcium Chloride)
EVAPORATION RATE	N/A
APPEARANCE	Brown sandy granules plus white granules
ODOR	None

### 9. STABILITY & REACTIVITY DATA:

PRODUCT STABILITY:	Thermally stable at typically used temperatures. Hygroscopic.
CHEMICAL INCOMPATIBILITY:	Corrosive to some metals. Flammable hydrogen may be generated from contact with metals such as zinc or sodium. Avoid contact with acids. Heat is generated when mixed with water.
HAZARDOUS DECOMPOSITION PRODUCTS:	None
HAZARDOUS POLYMERIZATION:	Will not occur.
CONDITIONS TO AVOID:	Some components of this product can decompose at elevated temperatures. Flammable hydrogen may be generated when contact is made with elements such as zinc or sodium. Avoid moisture.
CORROSIVE TO METAL:	Avoid contact with metals such as aluminum, brass, ferrous metals, and mild steel.
OXIDIZER:	N/A

### 10. ENVIRONMENTAL AND DISPOSAL INFORMATION: (See Section 12 for Regulatory Information)

#### DISPOSAL:

**DO NOT DUMP** into any sewer systems, on the ground, or into any body of water. All disposal methods must be in compliance with all Federal, State/Provincial and local laws and regulations. Regulations may vary in different locations. Waste characterizations and compliance with applicable laws are the responsibility solely of the waste generator.

*Ossian, Inc. has no control over the management practices or processes of parties handling or using this material. The information presented here pertains only to the product as shipped in its intended condition as described in MSDS section 1.*

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FOR UNUSED & UNCONTAMINATED PRODUCT:

Send to a licensed and/or permitted: re claim, landfill, or waste water treatment facility.

### 11. TRANSPORT INFORMATION:

UNITED STATES DOT INFORMATION:

This product is not regulated by D.O.T. when shipped domestically by land.

CANADIAN TDG INFORMATION:

This product is not regulated by T.D.G. when shipped domestically by land.

### 12. REGULATORY & SHIPPING DATA: (Not meant to be all-inclusive- selected regulations represented)

D.O.T. PROPER SHIPPING NAME:	N/A
HAZARDOUS SUBSTANCE 49CFR CERCLA:	N/A
D.O.T. HAZARD CLASS	N/A
D.O.T. LABELS REQUIRED	N/A
D.O.T. PLACARDS REQUIRED	N/A

#### U.S. REGULATIONS

**SARA 313 INFORMATION:** To the best of our knowledge, this product contains no chemical subject to SARA Title III Section 313 supplier notification requirements.

**SARA HAZARD CATEGORY:** This product has been reviewed according to the EPA "Hazard Categories" promulgated under Sections 311 and 312 of the Superfund Amendment and Reauthorization Act of 1986 (SARA Title III) and is considered, under applicable definitions, to meet the following categories:  
**An Irritant** due to possible effects on the eyes.

**TOXIC SUBSTANCES CONTROL ACT (TSCA):**

All ingredients are on the TSCA inventory or are not required to be listed on the TSCA inventory. See section 1.

**STATE RIGHT-TO-KNOW:**

This product is not known to contain any substances subject to the disclosure requirements of: New Jersey, Pennsylvania

**OSHA HAZARD COMMUNICATION STANDARD:**

This product is NOT a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

**COMPREHENSIVE ENVIRONMENTAL RESPONSE COMPENSATION AND LIABILITY ACT (CERCLA, or SUPERFUND):**

To the best of our knowledge, this product contains no chemical subject to reporting under CERCLA.

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**CANADIAN REGULATIONS**

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### WHMIS INFORMATION:

The Canadian Workplace Hazardous Materials Information System (WHMIS) Classification for this product is:

**D2B** – eye or skin irritant (See sections 2 & 3) Refer to employer's workplace education program.

### CPR STATEMENT:

This product has been classified in accordance with the hazard criteria of the Canadian Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

### HAZARDOUS PRODUCTS ACT INFORMATION:

This product contains the following ingredients which is a Controlled Product and/or on the Ingredient Disclosure List (Canadian HPA section 11 and 12)

<u>COMPONENTS:</u>	<u>CAS#</u>	<u>AMOUNT (%w/w)</u>
Calcium Chloride	010043-52-4	83-87@15%by Vol.

### 13. SUPPLIER INFORMATION:

Ossian, Inc. expressly disclaims all express or implied warranties of merchantability and fitness for a particular purpose, with respect to the product or information provided herein. All information appearing herein is based upon data obtained from the manufacturer and/or recognized technical sources. While the information is believed to be accurate, Ossian makes no representations as to its accuracy or sufficiency. Conditions of use are beyond Ossian's control and therefore users are responsible to verify this data under their own operating conditions to determine whether the product is suitable for their particular purposes and they assume all risks of their use, handling, and disposal of the product, or from the publication or use of, or reliance upon, information contained herein. This information relates only to the product designated herein, and does not relate to its use in combination with any other material or in any other process.