

ALDEN LEEDS, INC.  
55 JACOBUS AVE.  
SO. KEARNY, NJ 07032  
(973) 589-3544

PRODUCT CODE # 1847-1851  
PRODUCT NAME: BASIC CALCIUM  
HARDNESS

MATERIAL  
SAFETY DATA  
SHEET  
10/20/04

### SECTION I - IDENTIFICATION

**CHEMICAL NAME & SYNONYMS:** Calcium Chloride, Dihydrate

**CHEMICAL FORMULA:** CaCl<sub>2</sub> - 2H<sub>2</sub>O

**TRADE NAME:** Calcium Hardness - Flake and Private Label

**DESCRIPTION:** Small white flakes; odorless

**CAS NO:** 10035-04-8

### SECTION II - PHYSICAL DATA

**Boiling Point:** N/A

**Specific Gravity (H<sub>2</sub>O=1):** 0.835

**Vapor Pressure:** N/A

**% Volatile by Volume:** N/A

**Solubility in water:** 42 (anhydrous) @ 20 C

**Melting Point:** 176 C

**Freezing Point:** N/A

**Vapor Density:** N/A: water vapor only

**Evaporation Rate:** N/A

**pH:** Neutral or slightly alkaline

### SECTION III - HAZARDOUS INGREDIENTS

MATERIAL	CAS NO	% BY WEIGHT	HAZARD DATA
Calcium Chloride	10035-04-8	80	None

### SECTION IV - FIRE AND EXPLOSION HAZARD DATA

**Flash Point:** N/A

**Flammable Limits in Air % By Volume:** N/A

**Extinguishing Media:** N/A

**Special Fire Fighting Procedures:** None

**Unusual Fire and Explosion Hazards:** None

**Autoignition Temp:** N/A

### SECTION V - HEALTH HAZARD DATA

**EFFECTS OF OVEREXPOSURE:**

**Inhalation:** Dust or mist may irritate nose, throat and lungs.

**Skin:** May cause skin irritation. Under conditions of prolonged contact or when moisture is present, superficial burns may result. Contact with abraded skin or cuts can cause severe necrosis.

**Eye:** May irritate or burn.

**Ingestion:** May irritate gastrointestinal tract.

### SECTION VI - EMERGENCY AND FIRST AID PROCEDURE

**INHALATION:** Remove patient from area to fresh air. Get medical attention for irritation, ingestion, or discomfort.

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

**EYE:** Flush promptly plenty of water for at least 15 minutes. Get medical attention.

**INGESTION:** If conscious, immediately give 2 to 4 glasses of water, and induce vomiting by touching finger to back of throat.

### SECTION VII - TOXICOLOGY

**Oral LD50 (rat):** 1.4 g/kg

**\*Note:** Low in toxicity, but more toxic than sodium chloride.

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### SECTION VIII - REACTIVITY DATA

**Stability:** Stable

**Conditions to Avoid:** N/A

**Incompatibility (materials to avoid):** Sulfuric acid: yield hydrogen chloride gas, which is corrosive, irritating and reactive. Water-Reactive Materials (such as sodium): cause an exothermic reaction. Methyl Vinyl Ether: starts runaway polymerization reaction. Zinc (as in galvanized iron): yields hydrogen gas with solutions, which may explode under these conditions.

**Hazardous Decomposition:** None

**Hazardous Polymerization:** Will not occur.

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### SECTION IX - SPILL, LEAKAGE & DISPOSAL PROCEDURES

**Steps to take if material leaks or spills:** Wear appropriate protective gear. Shovel up dry chemical and place in metal drum with a cover. Cautiously spray residue with plenty of water.

**Waste disposal method:** Comply with all Federal, State and Local regulations. Dissolve in water using cautions as solution can be very hot. Flush to sewer with plenty of water if permitted by applicable disposal regulations. Waste may have to be disposed of by an approved contractor.

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### SECTION X - SPECIAL PROTECTION DATA

**Ventilation:** Local Exhaust: In packaging and unloading areas, over open processing equipment, and any other places where dusty or misty condition prevails. Natural Ventilation: Adequate for other areas.

**Respiratory Protection:** For dusty or misty condition, wear a NIOSH-approved dust or mist respirator.

**Protective Gloves:** Cotton gloves permitted for dry product, impervious gloves when using solutions.

**Eye Protection:** Wear chemical goggles where there is a potential for eye contact. Use safety glasses or plastic goggles with side shields for dusty or misty conditions. DO NOT wear contact lens when handling this product.

**Other Equipment:** As a minimum wear long-sleeve shirt and trousers, boots and gloves for routine product use. Eye wash stations are recommended.

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### SECTION XI - SPECIAL PRECAUTIONS DATA

**Handling and Storage:** Avoid contact with eyes, skin or clothing. Avoid breathing dust or mist. Use good personal hygiene and housekeeping. Store in a cool dry area. Prolonged storage may cause product to cake and become wet from atmospheric moisture.

**Labeling:** Signal Word -- WARNING

**Other:** Wear all recommended protective equipment when handling this product.

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### SECTION XII - TRANSPORTATION INFORMATION

This product is not a hazardous material and is not regulated by the D.O.T. For all transportation accidents, call **CHEMTREC** at 800-424-9300.

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The information herein is given in good faith but no warranty, expressed or implied, is made.

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ALDEN LEEDS, INC.  
55 JACOBUS AVE. SO. KEARNY, NJ 07032  
24 HOUR EMERGENCY PHONE: CHEMTREC 800-424-9300