

MATERIAL SAFETY DATA SHEET

SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

MSDS NAME: 1M Calcium chloride
CATALOG NUMBER: MT-140
COMPANY IDENTIFICATION: BOSTON BIOPRODUCTS, INC
9 SHORT STREET, WORCESTER, MA 01604

SECTION 2 – COMPOSITION, INFORMATION ON INGREDIENTS

Component	%	Cas#
Water	~88%	7732-18-5
Calcium chloride	10-12%%	10043-52-4

SECTION 3 - HAZARDS IDENTIFICATION

WARNING! CAUSES IRRITATION TO SKIN, EYES AND RESPIRATORY TRACT. HARMFUL IF SWALLOWED OR INHALED.

Health Rating: 1 - Slight
Flammability Rating: 0 - None
Reactivity Rating: 2 - Moderate
Contact Rating: 3 - Severe
Lab Protective Equip: GOGGLES; LAB COAT
Storage Color Code: Green (General Storage)

SECTION 4-FIRST-AID MEASURES

IF SWALLOWED, WASH OUT MOUTH WITH WATER PROVIDED PERSON IS CONSCIOUS. CALL A PHYSICIAN.
IN CASE OF SKIN CONTACT, FLUSH WITH COPIOUS AMOUNTS OF WATER FOR AT LEAST 15 MINUTES. REMOVE CONTAMINATED CLOTHING AND SHOES. CALL A PHYSICIAN.
IF INHALED, REMOVE TO FRESH AIR. IF BREATHING BECOMES DIFFICULT, CALL A PHYSICIAN.
IN CASE OF CONTACT WITH EYES, FLUSH WITH COPIOUS AMOUNTS OF WATER FOR AT LEAST 15 MINUTES. ASSURE ADEQUATE FLUSHING BY SEPARATING THE EYELIDS WITH FINGERS. CALL A PHYSICIAN.

SECTION 5-FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA, WATER SPRAY.
CARBON DIOXIDE, DRY CHEMICAL POWDER OR APPROPRIATE FOAM.
SPECIAL FIREFIGHTING PROCEDURES
WEAR SELF-CONTAINED BREATHING APPARATUS AND PROTECTIVE CLOTHING TO PREVENT CONTACT WITH SKIN AND EYES.
UNUSUAL FIRE AND EXPLOSIONS HAZARDS
EMITS TOXIC FUMES UNDER FIRE CONDITIONS.

SECTION 6-ACCIDENTAL RELEASE MEASURES

WEAR PROTECTIVE EQUIPMENT.
ABSORB ON SAND OR VERMICULITE AND PLACE IN CLOSED CONTAINERS FOR DISPOSAL.
VENTILATE AREA AND WASH SPILL SITE AFTER MATERIAL PICKUP IS COMPLETE

SECTION 7-HANDLING AND STORAGE

REFER TO SECTION 8.

SECTION 8-EXPOSURE CONTROLS/PERSONAL PROTECTION

CHEMICAL SAFETY GOGGLES. RUBBER GLOVES.
NIOSH/MSHA-APPROVED RESPIRATOR.
SAFETY SHOWER AND EYE BATH.
MECHANICAL EXHAUST REQUIRED.

SECTION 9-PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Colorless solution.
Odor: Odorless.
Solubility: Freely soluble in water, exothermic.
Vapor Density (Air=1): No information found.

Vapor Pressure (mm Hg): No information found.
Evaporation Rate (BuAc=1): No information found.

SECTION 10-STABILITY AND REACTIVITY

Stability:

Stable under ordinary conditions of use and storage. Substance will pick up moisture from the air and go into solution if exposed in open containers.

Hazardous Decomposition Products:

Emits toxic chlorine fumes when heated to decomposition. May form hydrogen chloride in presence of sulfuric or phosphoric acids or with water at elevated temperatures.

Hazardous Polymerization:

Will not occur.

Incompatibilities:

Methyl vinyl ether, water, zinc, bromine trifluoride, mixtures of lime and boric acid, barium chloride, and 2-furan percarboxylic acid. Metals will slowly corrode in aqueous calcium chloride solutions. Aluminum (and alloys) and yellow brass will be attacked by calcium chloride.

Conditions to Avoid:

Incompatibles.

SECTION 11-TOXICOLOGICAL INFORMATION

Environmental Fate:

Based on available information for Calcium Chloride anhydrous, this material will not biodegrade or bioaccumulate.

Environmental Toxicity:

The LC50/96-hour values for fish are over 100 mg/l. (dry calcium chloride)

SECTION 12- ECOLOGICAL INFORMATION

Environmental Fate:

Based on available information for Calcium Chloride solution, this material will not biodegrade or bioaccumulation.

13. DISPOSAL CONSIDERATIONS

Whatever cannot be saved for recovery or recycling should be managed in an appropriate and approved waste disposal facility. Processing, use or contamination of this product may change the waste management options. State and local disposal regulations may differ from federal disposal regulations. Dispose of container and unused contents in accordance with federal, state and local requirements.

14. TRANSPORTATION INFORMATION

Not regulated.

SECTION 15- REGULATORY INFORMATION

Irritating to eyes, respiratory system, and skin. In case of contact with eye rinse immediately with plenty of water and seek medical advice.

Disclaimer:

Boston BioProducts provides the information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product. Individuals receiving the information must exercise their independent judgment in determining its appropriateness for a particular purpose. For any other information please contact us at 508-756-6677

January 2007