

Frey Scientific

MATERIAL SAFETY DATA SHEET

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MSDS No.: CC0060
Revision Date: February 19, 2010
Approved by: James A. Bertsch

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Section 1: Chemical Product and Company Information

Product	CALCIUM CARBONATE
Synonyms	Marble Chips, Boiling Chips

CHEMTREC 24 Hour Emergency Phone Number (800) 424-9300

Section 2: Chemical Identification

Chemical Name	Calcium carbonate	CAS #	471-34-1	%	> 99%	TLV Units	TWA: 10 mg/m ³ (powder) (ACGIH 2001)
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Section 3: Hazards Identification

Emergency Overview

CAUTION!
Use extreme care in the use of marble chips in generating CO₂. Avoid contact with skin and eyes. Store in a cool, dry place away from acids and acid fumes. Target organs: None known.

Health	0
Flame	0
Reactivity	0
Contact	0

HMSIS *

Section 4: First Aid Measures

INGESTION: Call physician or Poison Control Center immediately. Induce vomiting only if advised by appropriate personnel. Never give anything by mouth to an unconscious person.

INHALATION: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

EYE CONTACT: Check for and remove contact lenses. Flush thoroughly with water for at least 15 minutes, lifting upper and lower eyelids occasionally. Get immediate medical attention.

SKIN CONTACT: Remove contaminated clothing. Flush thoroughly with mild soap and water. If irritation occurs, get medical attention.

Section 5: Fire Fighting Measures

General Information: In fire conditions, wear a NIOSH/MSHA-approved self-contained breathing apparatus and full protective gear. The fumes evolved by burning calcium carbonate in air is composed of calcium oxide (quick lime). This material is irritating to the skin, eyes and mucous membranes.

Extinguishing Media: Use any media suitable for extinguishing supporting fire.

Flash Point: N/A

Autoignition temperature: N/A

Explosion Limits: Lower: N/A Upper: N/A

Section 6: Accidental Release Measures

Use proper personal protective equipment as indicated in Section 8. Recover for use if not contaminated. Sweep or vacuum up and place in a suitable container for proper disposal. Wash spill area with soap and water. Avoid runoff into storm sewers and ditches which lead to waterways.



None listed.

Section 7: Handling and Storage

Read label on container before using. Do not wear contact lenses when working with chemicals. Keep container tightly closed. For laboratory use only. Not for drug, food or household use. Keep out of reach of children. Handling: Use with adequate ventilation. Avoid contact with eyes, skin and clothing. Avoid ingestion. Do not inhale dusts. Wash thoroughly after handling. Remove and wash clothing before reuse. Storage: Store in a cool, dry, well-ventilated area.

Section 8: Engineering Controls and Personal Protection

Engineering controls: Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower and fire extinguishing material. Personnel should wear safety glasses, goggles, or facemask, lab coat or apron, appropriate protective gloves. Use adequate ventilation to keep airborne concentrations low.

Respiratory protection: Use a chemical fume hood and/or wear a NIOSH/MSHA-approved respirator.

Section 9: Physical and Chemical Properties

Physical state: Solid.
Appearance: White, stone chips.
Odor: No odor.
pH: N/A
Vapor pressure (mm Hg): N/A
Vapor Density (Air = 1): N/A
Evaporation rate (Butyl acetate = 1): N/A
Viscosity: N/A

Section 10: Stability and Reactivity

Boiling point: N/A
Freezing / Melting point: N/A
Decomposition temperature: 826°C (1520°F)
Solubility: 0.001% @ 0°C; 0.002% @ 100°C
Specific gravity (H₂O = 1): 2.85
Percent volatile (%): N/A
Molecular formula: CaCO₃
Molecular weight: 100.09

Hazardous polymerization: Will not occur.

Section 11: Toxicological Information

Effects of overexposure: This product is a mild irritant to eyes and skin. Symptoms include irritation or redness of eyes or skin. Eye or skin disease and breathing or respiratory disorders may be aggravated by exposure to dusts produced by this chemical. May cause gastrointestinal disturbance if ingested.

ORL-RAT LD50: N/A
IHL-RAT LC50: N/A
SKN-RBT LD50: N/A

Section 12: Ecological Information

Data not yet available.

Section 13: Disposal Considerations

These disposal guidelines are intended for the disposal of catalytic quantities only. Federal regulations may apply to empty container. State and/or local regulations may be different. Dispose of in accordance with all local, state and federal regulations or contract with a licensed chemical disposal agency.

UN/NA number: N/A

Shipping name: Not Regulated.

Hazard class: N/A

Packing group: N/A

Exceptions: N/A

Section 14: Regulatory Information

TSCA-listed, EINECS-listed (207-439-9)

The information contained herein is furnished without warranty of any kind. Employers should use this information only as a supplement to other information gathered by them and must make independent determinations of suitability and completeness of information from all sources to assure proper use of these materials and the safety and health of employees. * Hazardous Materials Institute Standards.