

**Science Kit
& Boreal
Laboratories**

Boreal Laboratories Ltd.
1820 Midway Avenue
Mississauga, Ontario L4X 1K6

MSDS No. CC 60
Effective Date July 1, 1986

SECTION I NAME

Product	CALCIUM CARBONATE, CHIPS
Chemical Synonyms	Marble Chips, Boiling Chips
Formula	CaCO ₃
Unit(s) Size	100 grams to 12 Kg.
C.A.S. No.	471-34-1

24 HOUR EMERGENCY ASSISTANCE

	CHEMTREC 800-424-9300		Health		0
	Day 716-226-6177		Fire		0
	Night 716-334-4222		Reactivity		0
NFPA HAZARD RATING LEAST SLIGHT MODERATE HIGH EXTREME 0 1 2 3 4					

SECTION II HAZARDOUS INGREDIENTS OF MIXTURES

Principal Hazardous Component(s)	%	TLV Units
Calcium Carbonate, Chips	>99%	See Section V
LOW HEALTH HAZARD FOR USUAL LABORATORY HANDLING.		

SECTION III PHYSICAL DATA

Melting Point (°F)	Decomposes 825°C (1517°F)	Specific Gravity (H₂O = 1)	2.7-293
Boiling Point (°F)	Decomposes	Percent Volatile by Volume (%)	Not applicable
Vapor Pressure (mm Hg)	None as solid	Evaporation Rate (= 1)	Not applicable
Vapor Density (Air = 1)	Not applicable		
Solubility in Water	Slight		
Appearance and Odor	White stone chips; no odor.		

SECTION IV FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method Used)	Not applicable	Flammable Limits in Air % by Volume NA	Lower -----	Upper -----
Extinguisher Media	Use any media suitable for extinguishing supporting fire.			

SPECIAL FIREFIGHTING PROCEDURES

In fire conditions, wear a NIOSH-approved self-contained breathing apparatus.

UNUSUAL FIRE AND EXPLOSION HAZARDS

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.

D.O.T.	NON-REGULATED.
--------	----------------

Approved by U.S. Department of Labor "essentially similar" to form OSHA-20

SECTION V HEALTH HAZARD DATA

Threshold Limited Value	10 mg/m ³ (nuisance particulate), (ACGIH, 1982).
Effects of Overexposure	Low hazard. Treat as a nuisance dust and mild irritant for eyes, nose, throat, and mucous membranes.

Emergency and First Aid Procedures

SKIN AND EYES: Flush well with water.
ORAL INGESTION: If patient is conscious, give large amounts of water to rinse mouth. Follow by several glasses of water or milk.
Call a physician. **DO NOT INDUCE VOMITING.**

SECTION VI REACTIVITY DATA

Stability	Unstable		Conditions to Avoid	Acids and acid fumes.
	Stable	x		
Incompatibility Materials to avoid)		Acids; can react violently with fluorine, (Mg + H ₂).		

Hazardous Decomposition Products

Calcium Oxide (quick lime).

Hazardous Polymerization		Conditions to Avoid
May Occur	Will Not Occur	-----
	X	

SECTION VII SPILL OR LEAK PROCEDURES

Steps to be taken in case material is released or spilled	Recycle or sweep up and place in a suitable container.
--	--

Waste Disposal Method

Uncontaminated material may be disposed of in a sanitary landfill.

Discharge, treatment, or disposal may be subject to federal, state, or local laws.

SECTION VIII SPECIAL PROTECTION INFORMATION

Respiration Protection (Specify Type)		None should be needed in normal laboratory handling. If dusty conditions prevail, work in a ventilation hood or wear a NIOSH-approved dust mask.			
Ventilation	Local Exhaust	Not needed	Special	No	
	Mechanical (General)	Not needed	Other	No	
Protective Gloves		Not required.		Eye Protection	
Chemical safety glasses.					
Other Protective Equipment	Goggles and lab coat.				

SECTION IX SPECIAL PRECAUTIONS

Precautions to be Taken in Handling and Storing	Store in a cool, dry place away from acids and acid fumes. Wash thoroughly after handling.
Other Precautions	Read label on container before using.

For laboratory use only. Not for drug, food or household use. Keep out of reach of children.

Rev. No. No.1	Date 1/12/87	Approved Alexander Piccirilli	Chemical Safety Coordinator AP
----------------------	---------------------	--------------------------------------	---------------------------------------

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.