


**KEMTEC
EDUCATIONAL
CORPORATION**

MATERIAL SAFETY DATA SHEET.
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MSDS No. CC 50
Effective Date November 1, 1998

SECTION I NAME 24 HOUR EMERGENCY ASSISTANCE

Product	CALCIUM CARBONATE, POWDER	 CHEMTREC 800-424-9300 Day 716-228-8177 NFPA HAZARD RATING LEAST SLIGHT MODERATE HIGH EXTREME 0 1 2 3 4 HMIS* 0 1 2 3 4
Chemical Synonyms	Limestone; Precipitated Calcium Carbonate	
Formula	CaCO ₃	
Unit Size	up to 2.5 Kg	
C.A.S. No.	1317-85-3	
Health	1	
Fire	0	
Reactivity	0	

SECTION II INGREDIENTS OF MIXTURES

Principal Component(s)	%	TLV Units
Calcium Carbonate	>97%	See Section V.

CAUTION! CAUSES IRRITATION TO SKIN,

EYES AND RESPIRATORY TRACT.

SECTION III PHYSICAL DATA

Melting Point (°F)	Decomposes 825°C (1517°F)	Specific Gravity (H ₂ O = 1)	2.7
Boiling Point (°F)	N/A	Percent Volatile by Volume (%)	N/A
Vapor Pressure (mm Hg)	N/A	Evaporation Rate (Butyl acetate = 1)	N/A
Vapor Density (Air=1)	N/A		
Solubility in Water	0.0014 g/100 mL.		
Appearance & Odor	White crystalline powder; odorless.		

SECTION IV FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method Used)	N/A	Flammable Limits in Air % by Volume	N/A	Lower	Upper
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Extinguisher Media Use any media suitable for extinguishing supporting fire.

SPECIAL FIREFIGHTING PROCEDURES

In fire conditions, wear a NIOSH/MSHA-approved, self-contained breathing apparatus and full protective clothing.

UNUSUAL FIRE AND EXPLOSION HAZARDS

The fumes evolved by burning calcium carbonate in air are 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 TWA: 10 mg/m³ ACGIH 1992-93.

Effects of Overexposure
Inhalation of respirable dusts may aggravate respiratory tract. Exposure to dust may irritate skin and eyes. Ingestion should not cause any health problems.

Emergency and First Aid Procedures

SKIN: Flush with soap and water. **EYES:** Flush thoroughly with water for at least 15 minutes, lifting upper and lower eyelids occasionally. Get medical attention. **INHALATION:** Remove to fresh air. If breathing has stopped, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention. **INGESTION:** If a large amount is ingested and if conscious, give large amounts of water to induce vomiting. Get medical attention.

SECTION VI REACTIVITY DATA

Stability	Unstable	Conditions to Avoid	Not applicable.
	Stable	X	
Incompatibility (Materials to Avoid)	Will react with acids.		
Hazardous Decomposition Products	Reacts with acids to produce CO ₂ .		
Hazardous Polymerization	Conditions to Avoid		
May Occur	Will Not Occur	Not applicable.	
	X		

SECTION VII SPILL OR LEAK PROCEDURES

Steps to be taken in case material is released or spilled
Care should be taken to avoid causing dust to become airborne. Sweep or vacuum up and place in a suitable container for disposal. Vacuum cleaning systems are recommended. Wash spill area with soap and water.

Waste Disposal Method
Discharge, treatment, or disposal may be subject to Federal, State or Local laws. These disposal guidelines are intended for the disposal of catalog-size quantities only.

Dispose of in accordance with federal, state and local regulations.

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/MSHA-approved dust mask.			
Ventilation	Local Exhaust	Recommended.	Special	No.
	Mechanical (General)	Recommended.	Other	No.
Protective Gloves	Rubber.	Eye Protection	Chemical safety glasses.	
Other Protective Equipment	Goggles, smock, apron, proper gloves, and eye wash station.			

SECTION IX SPECIAL PRECAUTIONS

Precautions to be Taken in Handling & Storing
Store in a cool, dry place away from acids. Wash thoroughly after handling.
Keep container tightly closed when not in use.

Other Precautions
Read label on container before using. Do not wear contact lenses when working with chemicals.

Remove and wash contaminated clothing.

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

Revision No. 4 Date 11/1/98 Approved Michael Raszeja Chemical Safety Coordinator MR

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