

MATERIAL SAFETY DATA SHEET

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MSDS No.: G00090 C00095
 Effective Date: January 1, 2007

SECTION I 24 HOUR EMERGENCY ASSISTANCE

Product	Calcium Hydroxide
Chemical Synonyms	Hydrated Lime, Slaked Lime
Formula	Ca(OH) ₂
Unit Size	up to 2.5 Kg.
C.A.S. No	1305-32-0

HAZARD RATINGS

Health	2
Env	0
Reactivity	0

HMS*

Health	2
Env	0
Reactivity	0

SECTION II INGREDIENTS OF MIXTURES

Principal Component(s)	Calcium hydroxide	%	TLV Units
		>95%	See Section V.

DANGER! CORROSIVE! CAUSES SEVERE IRRITATION AND POSSIBLE BURNS TO SKIN AND EYES.

SECTION III PHYSICAL DATA

Melting Point (°F)	as CaO 1078°F	Specific Gravity (H ₂ O = 1)	2.24
Boiling Point (°F)	as CaO 2850°C (5162°F)	Percent Volatile by Volume (%)	N/A
Vapor Pressure (mm Hg)	N/A	Evaporation Rate (Boiling Point = 1)	N/A
Vapor Density (Air = 1)	N/A		
Solubility in Water	0.185% @ 0°C		

Appearance & Odor Fine white or yellow-white crystalline powder, odorless.

SECTION IV FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method Used)	>100°C-combustible.	Flammable Limits in Air % by Volume	N/A
Extinguisher	Use any media suitable for extinguishing supporting fire.		

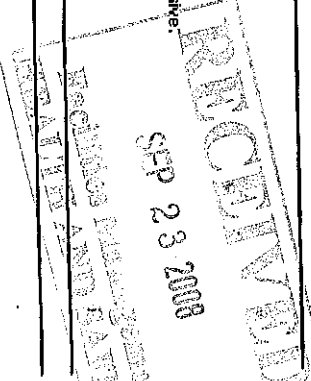
SPECIAL FIREFIGHTING PROCEDURES

Hydrated lime is not combustible and will not over heat when in contact with water. In fire conditions, wear a NIOSH/MSHA-approved, self-contained breathing apparatus and full protective clothing.

UNUSUAL FIRE AND EXPLOSION HAZARDS

Hydrated lime is not explosive.

DOT NON-REGULATED
 Approved by U.S. Department of Labor, essentially identical to form OSHA-20



SECTION V HEALTH HAZARD DATA

Threats and Limited Value TWA: 5 mg/m³ (ACGIH, 2001).

Effects of Overexposure Inhalation of dust causes severe irritation to the upper respiratory tract and mucous membranes. Product can cause dryness and burns to eyes and skin. Exercise appropriate procedures to minimize potential hazard. Target organs: None known.

Emergency and First Aid Procedures

INGESTION: Call physician or Poison Control Center immediately. Induce vomiting only if advised by appropriate medical personnel. Never give anything by mouth to an unconscious person. **EYES:** 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:** Remove contaminated clothing. Flush thoroughly with mild soap and water. If irritation occurs, get medical attention. **INHALATION:** Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Be medical attention.

SECTION VI REACTIVITY DATA

Stability	Unstable	Conditions to Avoid
	Stable	X
Incompatibility (Refrigerants to Avoid)		Avoid acids, fluorine.
Hazardous Decomposition Products		None.
Hazardous Polymerization		Conditions to Avoid
Use Occur	Will Not Occur	Not applicable.

SECTION VII SPILL OR LEAK PROCEDURES

Steps to be taken in case material is released or spilled: Federa as much as possible. Vacuum or sweep up and place in a suitable container for proper disposal. Wash spill area with soap and water.

Waste Disposal Method

Decontaminate, 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.

SECTION VIII SPECIAL PROTECTION INFORMATION

Personal Protection (Special Types)	None should be required in a 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. Recirculated: Recommended. Other: Vent dust to collector.
Protective Gloves	Rubber.
Eye Protection	Chemical safety glasses.

SECTION IX SPECIAL PRECAUTIONS

Precautions to be taken in handling and storing: Store in a cool, dry place away from acids. Wash thoroughly after handling. **Precautions:** Avoid contact with skin and eyes. Remove and wash contaminated clothing.

Product No.	9	Date	01/01/07	Approved	James A. Bertsch	Chemical Safety Coordinator	JAB
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