



CHEMTREC 800-424-9300

IMPORTANT MATERIAL SAFETY DATA SHEET

READ CAREFULLY BEFORE USING CHEMICAL
OSHA requires that this form be kept on file.

Product No. KM 1001 M

Product Name CALCIUM HYDROXIDE
POWDER

HAZARD RATINGS	
Health Hazard	1
Flammability	0
Reactivity	1

SECTION I	NAME
Chemical Synonyms	Hydrated Lime
Formula	Ca(OH) ₂
C.A.S. No.	1305-62-0

SECTION II	PEL	TLV Units
%	None Established	15 mg/m ³
>90		OSHA

* Chemical subject to the reporting requirements of SARA Title III.

SECTION III

Boiling Point (°F)	N/A	Specific Gravity (H ₂ O=1)	2.24
Boiling Point (°F)	>580°C dissociates	Percent Volatile by Volume (%)	N/A
Vapor Pressure (mm Hg)	(-1) above 580°C	Evaporation Rate	N/A
Vapor Density (Air=1)	N/A		
Solubility in Water	0.185 gr/cc at 0°C		
Appearance & Odor	Light gray powder, slight ammonia odor.		

SECTION IV

Flash Point (Method Used)	N/A	Flammable Limits in Air		
		% by Volume	Lower	Upper
			N/A	N/A

Extinguisher As necessary to control surrounding area fire.

Special Firefighting Procedures

Material is caustic. When heated above 580°C, will dissociate producing water vapor and calcium oxide (CaO). Firefighters should wear full protective clothing, eye protection, and self-contained breathing apparatus.

Unusual Fire and Explosion Hazards

None known.

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P.O.T. Not Regulated

15 mg/m³ Nuisance Dust (OSHA)

98916

Effect of Overexposure: Caustic irritant to eyes, skin, respiratory tract. Do not ingest! Acute: Produces high alkaline solution on contact with skin or mucous membranes, causes skin and eye burn throat irritation. Chronic: Dermatitis. Inhalation of dust will aggravate upper respiratory symptoms.

Emergency and First Aid Procedures

Inhalation: Remove to fresh air, get prompt medical attention. Eyes: Immediately flush eyes with running water for 15 minutes, including under eyelids. Get prompt medical attention. Skin: Flush with water or vinegar to neutralize alkali effects. Wash with soap and water. Ingestion: Dilute by giving glasses of water or milk to drink followed by fruit juices or diluted vinegar. Gargle with vinegar to prevent throat irritation. Consult physician.

SECTION VI

Stability: Stable Unstable
Conditions to Avoid: Will neutralize acid solutions.

Incompatibility (Materials to Avoid): Incompatible with acidic materials. Forms salts with nitroaromatics in presence of water and are explosive when dried.

Hazardous Decomposition Products: Calcium Oxide

Hazardous Polymerization: Conditions to Avoid: N/A

SECTION VII

Steps to be Taken in Case Material is Released or Spilled: Sweep up excess of hydrate. Place in dry metal containers. Avoid dusting. Flush are with large quantities of 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.
None

SECTION VIII

Respiration Protection: SPECIAL PROTECTION INFORMATION
(Specify Type) NIOSH/MSHA approved nuisance dust respirator.

Ventilation	Local Exhaust		Special
	Mechanical (General)	Other	
Protective Gloves	X		
Other Protective Equipment	Latex Rubber	Eye Protection	Safety Goggles

SECTION IX: SPECIAL PRECAUTIONS
Precautions to be Taken in Handling & Storing: Long sleeved shirts, buttoned collar, apron to prevent splashes of slurry. Keep container tightly closed when not in use.

Other Precautions: Avoid prolonged contact with eyes or skin, inhalation of dust. Use caution in handling alkaline water dispersions of this material.

Read label on container before using. Do not use product unless you are following the complete instructions. May have residual calcium carbide present, subject to react with water. See MSDS for calcium carbide.

Approved by: Steven C. Quandt Effective Date: 11/1/84 For laboratory use only. Not for household use. Keep out of reach of children.