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Section 1 – Identification

Product Name: Calcium Hydroxide Hydrated

Lime

Manufacturer: Keystone Industries

480 S Democrat Rd, Gibbstown, NJ 08027

Chemical Name: Calcium Hydroxide Information Contacts: (856) 663-4700
Toll Free: (800) 333-3131

Product Use: Restoration in Dentistry **Emergency Phone Numbers:** (800) 535-5053

Section 2 – Hazards Identification

EMERGENCY OVERVIEW

This information is based on findings from related or similar materials.

Hydrated lime is an odorless white or grayish-white granular powder. Contact can cause irritation to eyes, skin, respiratory system, and gastrointestinal tract. Contact may aggravate disorders of eyes, skin, gastrointestinal tract, and respiratory system.

H315 / H318 / H332 / H335 / H402





Potential Health Effects, Signs and Symptoms of Exposure:

Primary Route of Entry Inhalation, skin, and ingestion.

Eye Causes severe eye irritation. Product reacts with moisture and protein of the eye to form clumps which

are difficult to remove. Intense watering of the eyes, possible lesions, possible blindness when

exposed for prolonged period. Causes corneal burns.

Skin Causes skin irritation. Removes natural oils

Ingestion Causes pain, vomiting blood, diarrhea, collapse, drop in blood pressure. Irritation to the

gastrointestinal tract.

Inhalation Dust may be irritating to the respiratory tract.

NOTE: Refer to Section 11, Toxicological Information for Details

Section 3 – Composition/Information on Ingredients						
Chemical Identity	CAS Numbers	EINECS#	Exposure OSHA	Limits ACGIH	Carcinogen	%
•			TWA/STEL	TWA/STEL	IARC/NTP/OSHA	
Calcium	1305-62-0	215-137-3	TWA = 15	$TWA = 5 mg / m^3$	Not Listed	>90.0

N/E – None N/DA – No Data Available
Established N/A – Not Applicable
N/R – Not Reviewed

(items in parenthesis relate to 1999/45/EC)

Calcium Hydroxide: Danger Symbol – GHS05 (C), GHS07 (Xi) Hazard Statement: H315 (R38), H318 (R41), H335 (R37), H402 (N/A)

Precautionary Statement: P261 (S23), P280 (S36/37/39), P305 + 351 + 338 (S26)

Quartz: Hydrated lime is not listed by MSHA, OSHA, or IARC as a carcinogen, but this product may contain crystalline quartz silica, which has been classified by IARC as a group I carcinogen to humans when inhaled. Inhalation of silica can also cause chronic lung disorder, silicosis.

See Section 16 for Hazard and Precautionary Statement Key.

Section 4 – First Aid Measures

First Aid for Eye In case of contact, or suspect contact, immediately flush eyes with plenty of water for at least 15

minutes and get medical attention immediately after flushing.

First Aid for Skin Carefully and gently brush the contaminated body surfaces in order to remove all traces of lime. Use a

brush, cloth or gloves. Remove all lime-contaminated clothing. Rinse contaminated area with

lukewarm water for 15 to 20 minutes. Obtain medical attention immediately.



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First Aid for Ingestion Do NOT induce vomiting. Never give anything by mouth to an unconscious or convulsing person.

Seek immediate medical attention. If vomiting occurs spontaneously, keep head below hips to prevent

aspiration of liquid into lungs.

First Aid for Inhalation Remove person to fresh air. If not breathing, give artificial respiration. If breathing is difficult, get

immediate medical attention.

Section 5 – Fire Fighting Measures

Flash Point (°F/°C)	Flammable Limit (vol%)	Auto-ignition Temperature (vol%)
N/A	N/A	N/A

Method:

Extinguishing Media: In case of fire use water spray, dry chemical, carbon dioxide or foam.

Fire Fighting Non-combustible

Instructions:

Unusual Hazards:

Substance is noncombustible.

Section 6 – Accidental Release Measures

Spill or Release Shovel or vacuum up spilled product and place in closed container for disposal. Do not flush into sewer, stream, or other

Procedures bodies of water or soil.

Section 7 – Handling and Storage

Handling Limit all unnecessary personal contact. Use appropriate PPE when handling. Pick up and arrange disposal

without creating dust. Sweep up and shovel. Keep in suitable, closed containers. Prevent leakage into the

environment. For industrial use only.

Storage Store in a cool, dry place.

Explosion Hazard None.

Section 8 – Exposure Controls / Personal Protection

Engineering Mechanical ventilation should be used to control dust levels.

Controls

Personal Protective Equipment

General To identify additional Personal Protective Equipment (PPE) requirements, it is recommended that a

hazard assessment in accordance with the OSHA PPE Standard (29CFR1910.132), or European Standard

EN166 be conducted before using this product.

Eye/ Face Use safety eyewear for protection against airborne particulate.

Protection

Skin Protection Use impermeable clothing to prevent any contact with this product, such as gloves, apron, boots, or whole body

suit. Recommended to prevent skin irritation in hypersensitive individuals. Natural rubber, neoprene, nitrile, or

PVC gloves.

Respiratory In case of insufficient ventilation or extremely dusty environments, wear suitable respiratory equipment.

Protection

Section 9 – Physical and Chemical Properties

Appearance White Powder		Odor & Odor Thresho None	old _P H N/A	Spec	ific Gravity N/A	Viscosity N/A		olatile //A
Boiling Point/ Freezing Point	Decompositi Temperatu			apor essure:	Vapor Density	Evaporation Rate	Ignition	Solubility In Water (20°C)
N/A	N/DA	N/DA		N/A	N/A	N/A	N/A	N/A



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Section 10 – Stability and Reactivity

Stability: Incompatibility (Materials to Avoid):

Stable Strong Acids

Hazardous Decomposition Products: Hazardous Polymerization:

None Will not occur

Conditions to Avoid: Exposure to moisture or water. Dusty conditions.

Section 11 – Toxicological Information

Acute Oral Toxicity	Acute Dermal Toxicity	Acute Inhalation Toxicity	Irritation – skin	Irritation – Eye
N/DA	N/DA	N/DA	N/DA	N/ DA

Sensitization	Mutagenicity	Sub-chronic Toxicity
N/ DA	N/DA	N/ DA

Section 12 – Ecological Information

Ecotoxicological Information - very toxic to aquatic life.

Acute Toxicity to	Acute Toxicity to Invertebrates	Acute Toxicity to Algae	Bioconcentration	Toxicity to
Fish				Sewage Bacteria
N/DA	N/ DA	N/ DA	N/ DA	N/ DA

Chemical Fate Information

Biodegradability	N/DA. This material is not expected to bioaccumulate.
Chemical Oxygen Demand	N/ DA

Section 13 – Disposal Considerations

Dispose of in compliance with governmental regulation (state and federal).

Dispose of container and unused contents in accordance with federal, state and local requirements. For EU Member States, please refer to any relevant Community provisions relating to waste. In their absence, it is useful to remind the user that national or regional provisions may be in force.

Section 14 – Transport Information

Non-regulated, non-hazardous material: DOT, IATA, IMO (IMDG).

Section 15 – Regulatory Information

US Federal Regulations

Clean Air Act: HAP/ODS	This product contains the following HAP's or ODS:
	• NONE
Clean Water Act: Priority	This product contains the following chemicals listed under the U. S. Clean Water Act
Pollutant	Priority Pollutant and Hazardous Substance List:
	• None
FDA: Food Packaging Status	This product has not been cleared by the FDA for use in food packaging and / or other
	applications as an indirect food-packaging additive.
Occupational Safety and Health	This product is considered to be hazardous under the OSHA Hazard Communication
Act	Standard. It's hazards are: Calcium Hydroxide – CAS 1305-62-0 (Corrosive)
RCRA	This product contains the following chemicals considered to be hazardous waste under
	RCRA (40 CFR 261).
	• None
SARA Title III: Section 302 (RQ)	This product contains no chemicals regulated under Section 302 as extremely hazardous
	substances.



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SARA Title III: Section 302 (TPQ)	This product contains chemicals regulated under Section 304 as extremely hazardous chemicals for emergency release notification ("CERCLA" List):
	• None
SARA Title III: Section 311-312:	This product is considered to be hazardous under the OSHA Hazard Communication
	Standard and is regulated under Section 311-312 (40 CFR 370). It's hazards are:
	Acute Health Hazard - Corrosive
SARA Title III: Section 313:	This product contains the following chemicals which are subject to the reporting
	requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization
	Act of 1986 and 40 CFR Part 372: None
TSCA Section 8(b): Inventory:	This product does contain chemicals listed on the TSCA inventory or otherwise complies
	with TSCA pre-manufacture notification requirements.
TSCA Significant New Use Rule:	None of the chemicals in this material have a SNUR under TSCA.

State Regulations

State Regulations	
CA Right-to-Know Law:	None
California No Significant Risk	
Rule:	None
MA Right-to-Know Law:	Listed
NJ Right-to-Know Law:	Listed
PA Right-to-Know Law:	Listed
FL Right-to-Know Law:	None
MN Right-to-Know Law:	None

International Regulations

CDSL: Canadian Inventory	Listed. WHMIS = D2B (Irritant) and E (Corrosive)
(on Canadian Transitional List)	

Labeling according to EC directives - 1272/2008 (CLP) and 1999/45/EC (items in parenthesis relate to 1999/45/EC)

European Community:







For Calcium Hydroxide (finished product):

- DANGER SYMBOLS: GHS05 (C), GHS07 (Xi)
- HAZARD STATEMENT: H315 (R38), H318 (R41), H335 (R37), H402 (N/A)
- PRECAUTIONARY STATEMENT: P102 (S2), P261 (S23), P280 (S36/37/39), P305+351+338 (S26)

Section 16 – Other Information

EU Classes and Risk / Safety Phrases for Referenced Ingredients (See Section 2):

(items in parenthesis relate to 1999/45/EC)

Danger Symbols:

GHS05 (C) - Corrosive, GHS07 (Xi) - Irritant

Hazard Statement:

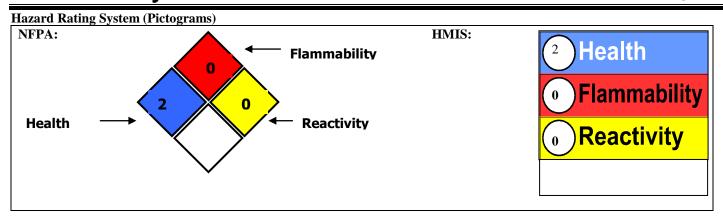
H315 (R38) - Causes skin irritation, H318 (R41) - Causes serious eye damage, H335 (R37) - May cause respiratory irritation, H402 (N/A) - Harmful to aquatic life.

Precautionary Statement:

P102 (S2), Keep out of reach of children. P261 (S23), Avoid breathing dust/fume/gas mist/vapor sprays. P280 (S36/37/39), Wear protective gloves/clothing/eye protection/face protection. P305 + 351 +338 (S26), If in eyes, rinse continuously with water for several minutes. Remove contact lenses if present and easy to do - continue rinsing.



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MSDS Prepared by:	WME
Revision History:	02/29/2012
	05/01/13 Changed manufacturer from Deepak to Keystone, changed address and telephone
	number SWR

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