Safety Data Sheet

* * * Section 1 - Product and Company Identification * * *

Material Name: Hydrated Lime
Synonyms: Lime Hydrate, Slaked Lime, Calcium Hydroxide

Manufacturer Information

CALPORTLAND COMPANY
2025 E. Financial Way
Glendora, CA 91741
Phone: 626-852-6200
www.calportland.com

* * * Section 2 - Hazards Identification * * *

GHS Classification:

Skin Corrosion/Irritation - Category 1B
Eye Damage/Irritation - Category 1
Carcinogenicity - Category 1A
Specific Target Organ Toxicity Repeat Exposure - Category 1

GHS LABEL ELEMENTS

Symbol(s)

Signal Word

Danger

Hazard Statements

Causes severe skin burns and eye damage.
May cause cancer.
Causes damage to organs (lungs) through prolonged or repeated exposure.

Precautionary Statements

Prevention

Do not breathe dusts/gas/mist/vapors/spray.
Wash thoroughly after handling.
Do not eat, drink or smoke when using this product.
Wear protective gloves/protective clothing/eye protection/face protection.
Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood.

Response

If swallowed: Rinse mouth. Do NOT induce vomiting. Immediately call a poison center/doctor.
If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash contaminated clothing before reuse.
If inhaled: Remove person to fresh air and keep comfortable for breathing.
If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison center/doctor.

Storage

Store in an appropriate container or containment structure.

Disposal

Dispose of contents/container in accordance with local/regional/national/international regulations.

* * * Section 3 - Composition / Information on Ingredients * * *

CAS #	Component	Percent
1305-62-0	Calcium hydroxide	100
14808-60-7	Quartz	<2

Component Information/Information on Non-Hazardous Components

General Product Information

All substances listed are associated with the nature of the raw materials used in the manufacture of this product and are not independent components of the product formulation.

* * * Section 4 - First Aid Measures * * *

First Aid: Eyes

In case of contact, do not rub or scratch your eyes. Due to lime content in this product, if eye contact occurs immediately flush eyes with copious amounts of water, occasionally lifting the lower and upper lids. Get medical attention immediately.

First Aid: Skin

Flush exposed skin with copious amounts of water for at least 15 minutes depending on concentration, amount and duration of exposure. Wash with mild soap and water. Immediately remove all contaminated clothing, including footwear. Call physician if irritation persists.

First Aid: Ingestion

Due to alkalinity caused by the lime content of this product, get medical attention immediately.

First Aid: Inhalation

Remove to fresh air. Seek medical help if coughing and other symptoms do not subside.

* * * Section 5 - Fire Fighting Measures * * *

General Fire Hazards

See Section 9 for Flammability Properties.
None known.

Hazardous Combustion Products

None.

Extinguishing Media

Use water.

Unsuitable Extinguishing Media

None

Fire Fighting Equipment/Instructions

Firefighters should wear full protective gear.

* * * Section 6 - Accidental Release Measures * * *

Recovery and Neutralization

No special precautions.

Materials and Methods for Clean-Up

Neutralize with dilute acid due to lime content. Scrape up material and place in an appropriate container.

Emergency Measures

Isolate area. Keep unnecessary personnel away.

Personal Precautions and Protective Equipment

Wear appropriate protective equipment and clothing during clean-up.

Environmental Precautions

None

Prevention of Secondary Hazards

None

* * * Section 7 - Handling and Storage * * *

Handling Procedures

Avoid dust contact with eyes. Wear the appropriate eye protection against dust. Minimize dust generation and accumulation. Avoid breathing dust. Wear the appropriate respiratory protection against dust in poorly ventilated areas and if TLV is exceeded. Use good safety and industrial hygiene practices.

Storage Procedures

Store in cool, dry, ventilated area away from sources of heat, moisture and incompatible materials. Moisture and long storage causes lumping and makes lime less reactive.

Incompatibilities

Maleic anhydride and nitro-compounds.

* * * Section 8 - Exposure Controls / Personal Protection * * *

Component Exposure Limits

Calcium hydroxide (1305-62-0)

ACGIH: 5 mg/m3 TWA
OSHA: 15 mg/m3 TWA (total dust); 5 mg/m3 TWA (respirable fraction)
NIOSH: 5 mg/m3 TWA

Quartz (14808-60-7)

ACGIH: 0.025 mg/m3 TWA (respirable fraction)
NIOSH: 0.05 mg/m3 TWA (respirable dust)

Engineering Measures

Use local exhaust or general dilution ventilation to control exposure within applicable limits.

Personal Protective Equipment: Respiratory

Avoid actions that cause dust exposure to occur. Use local or general ventilation to control exposures below applicable exposure limits. NIOSH or MSHA approved particulate filter respirators should be used in the context of respiratory protection program meeting the requirements of the OSHA respiratory protection standard [29 CFR 1910.134] to control exposures when ventilation or other controls are inadequate or discomfort or irritation is experienced. Respirator and/or filter cartridge selection should be based on American National Standards Institute (ANSI) Standards Z88.2 Practices for Respiratory Protection.

Personal Protective Equipment: Hands

Where prolonged exposure to products might occur, wear impervious gloves to eliminate skin contact.

Personal Protective Equipment: Eyes

When engaged in activities where ingredients could contact the eye, wear safety glasses with side shields or goggles. In extremely dusty environments and unpredictable environments, wear unvented or indirectly vented goggles to avoid eye irritation or injury. Contact lenses should not be worn when working with ingredients.

Personal Protective Equipment: Skin and Body

Normal work clothing (long sleeved shirts and long pants) is recommended.

* * * Section 9 - Physical & Chemical Properties * * *

Appearance:	White to gray powder.	**Odor:**	Earthy
Physical State:	Solid/Powder	**pH:**	12.8 (in water)
Vapor Pressure:	Not Applicable	**Vapor Density:**	Not Applicable
Boiling Point:	2850°C	**Melting Point:**	2500°C
Solubility (H2O):	Slight	**Specific Gravity:**	2.4
Evaporation Rate:	Not Applicable	**VOC:**	Not Determined
Octanol/H2O Coeff.:	Not Determined	**Flash Point:**	Not Determined
Flash Point Method:	Not Determined	**Upper Flammability Limit (UFL):**	Not Determined
Lower Flammability Limit (LFL):	Not Determined	**Burning Rate:**	Not Determined
Auto Ignition:	Not Determined		

* * * Section 10 - Chemical Stability & Reactivity Information * * *

Chemical Stability

This is a stable material.

Hazardous Reaction Potential

Will not occur.

Conditions to Avoid

Contact with incompatibles.

Incompatible Products

Maleic anhydride and nitro-compounds.

Hazardous Decomposition Products

When burned forms CaO, which is caustic and irritating to eyes, skin and respiratory system.

* * * Section 11 - Toxicological Information * * *

Acute Toxicity

Component Analysis - LD50/LC50

Calcium hydroxide (1305-62-0)
Oral LD50 Rat 7340 mg/kg

Quartz (14808-60-7)
Oral LD50 Rat 500 mg/kg

Potential Health Effects: Skin Corrosion Property/Stimulativeness

Chemical burns or irritation of skin may result due to hydrated lime content. Direct, prolonged or repeated contact with the skin may cause dermatitis.

Potential Health Effects: Eye Critical Damage/ Stimulativeness

Dust can cause mechanical irritation of eyes. Hydrated lime is a strongly alkaline material and is very irritating to eyes.

Potential Health Effects: Ingestion

May be corrosive to the digestive tract.

Potential Health Effects: Inhalation

Exposure to dust generated during the handling or use of the product may irritate eyes, skin, nose, throat and upper respiratory tract.

Respiratory Organs Sensitization/Skin Sensitization

This product is not reported to have any sensitization effects.

Generative Cell Mutagenicity

This product is not reported to have any mutagenic effects.

Carcinogenicity

A: General Product Information

May cause cancer.

Exposures to respirable crystalline silica are not expected during the normal use of this product. Prolonged and repeated exposure to airborne free respirable crystalline silica can result in lung disease and/or lung cancer. IARC states that crystalline silica in the form of quartz or cristobalite from occupational sources is carcinogenic to humans (Group 1).

B: Component Carcinogenicity

Quartz (14808-60-7)

ACGIH:	A2 - Suspected Human Carcinogen
NIOSH:	potential occupational carcinogen
NTP:	Known Human Carcinogen (respirable size) (Select Carcinogen)
IARC:	Monograph 100C [2012] (listed under Crystalline silica inhaled in the form of quartz or cristobalite from occupational sources); Monograph 68 [1997] (Group 1 (carcinogenic to humans))

Reproductive Toxicity

This product is not reported to have any reproductive toxicity effects.

Specified Target Organ General Toxicity: Single Exposure

This product is not reported to have any single exposure specific target organ toxicity effects.

Specified Target Organ General Toxicity: Repeated Exposure

Causes damage to organs (lungs) through prolonged or repeated exposure.

Aspiration Respiratory Organs Hazard

This product is not reported to have any aspiration hazard effects.

* * * Section 12 - Ecological Information * * *

Ecotoxicity

A: General Product Information

This product is not reported to have any ecotoxicity effects. Hydrated lime is expected to be toxic to fish due to its high alkalinity. Discharge of large quantities directly into waterways would be expected to cause significant fish kills.

B: Component Analysis - Ecotoxicity - Aquatic Toxicity

Calcium hydroxide (1305-62-0)

Test & Species		Conditions
96 Hr LC50 Gambusia affinis	160 mg/L [static]	

Persistence/Degradability

No information available for the product.

Bioaccumulation

No information available for the product.

Mobility in Soil

No information available for the product.

* * * Section 13 - Disposal Considerations * * *

Waste Disposal Instructions

See Section 7 for Handling Procedures. See Section 8 for Personal Protective Equipment recommendations.

Disposal of Contaminated Containers or Packaging

Dispose of contents/container in accordance with local/regional/national/international regulations.

* * * Section 14 - Transportation Information * * *

DOT Information

Shipping Name: Not Regulated

* * * Section 15 - Regulatory Information * * *

Regulatory Information

US Federal Regulations

Component Analysis

None of this products components are listed under SARA Section 302 (40 CFR 355 Appendix A), SARA Section 313 (40 CFR 372.65), or CERCLA (40 CFR 302.4).

State Regulations

Component Analysis - State

The following components appear on one or more of the following state hazardous substances lists:

Component	CAS	CA	MA	MN	NJ	PA	RI
Calcium hydroxide	1305-62-0	Yes	Yes	Yes	Yes	Yes	No
Quartz	14808-60-7	No	Yes	Yes	Yes	Yes	No

The following statement(s) are provided under the California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65):

WARNING! This product contains chemicals known to the state of California to cause cancer, birth defects, or other reproductive harm.

Component Analysis - WHMIS IDL

The following components are identified under the Canadian Hazardous Products Act Ingredient Disclosure List:

Component	CAS #	Minimum Concentration
Calcium hydroxide	1305-62-0	1 %
Quartz	14808-60-7	1 %

Additional Regulatory Information

Component Analysis - Inventory

Component	CAS #	TSCA	CAN	EEC
Calcium hydroxide	1305-62-0	Yes	DSL	EINECS
Quartz	14808-60-7	Yes	DSL	EINECS

* * * Section 16 - Other Information * * *

Hazardous Material Information System (HMIS):		
	Health	2
	Flammability	0
	Physical Hazard	1
	Personal Protection	B

NFPA/HMIS Definitions: 0-Least, 1-Slight, 2-Moderate, 3-High, 4-Extreme
Protective Equipment: Safety glasses, gloves

Key/Legend

EPA = Environmental Protection Agency; TSCA = Toxic Substance Control Act; ACGIH = American Conference of Governmental Industrial Hygienists; IARC = International Agency for Research on Cancer; NIOSH = National Institute for Occupational Safety and Health; NTP = National Toxicology Program; OSHA = Occupational Safety and Health Administration., NJTSR = New Jersey Trade Secret Registry.

Literature References

None

Other Information

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