



Chememan Australia Pty Ltd

11 Sparks Road, Henderson, WA 6166

ABN 73 134 283 060

Tel: 08-9437-4800, 9437-3975, 9437-4617, Fax: 08-9437-4822

Safety Data Sheet

1. Product and Company Identification

Product Name: **Quicklime**
Chemical Name: Calcium Oxide
Manufacturer: Chememan Company Limited
195/11-12 Lake Rajada Office Complex 2, 10-11Floor,
Rajadapisek Road, Klongtoey, Bangkok, Thailand 10110
Tel: +662-661-9734-8
Email: info@chememan.com

2. Composition / Information on Ingredients

Synonyms: Lime, Burnt Lime
Molecular Formula: CaO
Molecular weight: 56.08
CAS-No. 1305-78-8

3. Hazards Identification

Classified as hazardous according to the criteria of the National Occupational Health and Safety Commission (NOHSC).

GHS Classifications

Serious Eye Damage/Irritation: Category 1
Skin Corrosion/Irritation: Category 2
Specific Target Organ Toxicity (Single Exposure): Category 3

SIGNAL WORD

DANGER



Pictograms

Hazard Statements		Prevention		Response	
H315	Causes skin irritation.	P264	Wash skin thoroughly after handling	P302 + P352	IF ON SKIN: Wash with plenty of soap and water
		P280	Wear protective gloves	P332 + P313	If skin irritation occurs: Get medical advice/attention
P362	Take off contaminated clothing and wash before reuse.				
H318	Causes serious eye damage.	P280	Wear eye protection/face protection	P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses,



					if present and easy to do. Continue rinsing.
				P310	Immediately call a POISON CENTER or doctor/physician
H335	May cause respiratory irritation.	P261	Avoid breathing dust	P304 + P340	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
		P271	Use only outdoors or in a well-ventilated area	P312	Call a POISON CENTER or doctor/physician if you feel unwell

Storage

P403 + P233
P405

Store in a well-ventilated place. Keep container tightly closed. Store locked up.

Disposal

P501

Dispose of contents/container in accordance to relevant regulations.

4. First Aid Measures

After Eye Contact: Immediately rinse out with plenty of water for at least 15 minutes with the eyelid wide open. Get medical attention if irritation develops.

After Ingestion: Do not induce vomiting. Drink large amount of water if conscious. Get medical attention immediately.

After Inhalation: Remove to fresh air. If breathing is difficult or not breathing, get a medical attention immediately.

After Skin Contact: Carefully and gently brush the contaminated body surfaces to remove all traces of product. Remove contaminated clothing. Flush skin with plenty of water and soap. If irritation occurs seek medical advice.

5. Fire Fighting Measures

Fire Extinguishing Media:

Do not use water, fire must be extinguished using non-water extinguishers such as carbon dioxide or dry chemical.

Special Protective Equipments for Firefighters:

Fire fighters should wear a positive-pressure self-contained breathing apparatus (SCBA) and protective firefighting clothing (includes firefighting helmet, coat, trousers, boots and gloves). Clear fire area of all non-emergency personnel. Stay upwind. Keep out of low areas. Eliminate ignition sources. Move fire exposed containers from fire area if it can be done without risk. Do not allow firefighting water to reach waterways, drains or sewers. Store firefighting water for treatment.



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6. Accidental Release Measures

Procedures of personal precautions in case of spill or leak:

Keep unprotected people away from affected area and contact emergency services if appropriate.

Person in charge shall wear dust-proof goggles, PVC/rubber gloves, a Class P2 respirator (where an inhalation risk exists), coveralls and rubber boots.

Methods for Cleaning Up:

Carefully collect and place the spill or leaked product in dry sealable container for disposal or reuse. Avoid raising dust. Do not use water, dry clean-up only. Keep product out of sewer, storm water drains and natural waterways.

7. Handling and Storage

Handling:

Before use carefully read the product label. Use of safe work practices are recommended to avoid inhalation of dust, and skin or eye contact. Ensure an eye bath and safety shower are available and ready for use. Observe good personal hygiene practices and recommended procedures. Wash thoroughly after handling. Use only in a well-ventilated area. Keep containers sealed when not in use. Prevent the buildup of dust in the work atmosphere. Use suitable protective gloves, such as elbow length PVC gloves, safety boots and full-length clothing to protect the skin from contact with the dust, particularly wetted dust. Maintain good personal hygiene, after working with this product, workers are advised to shower with soap and water and apply a skin moisturiser. Work clothes should be washed regularly.

Storage:

Quicklime should be stored in a cool, dry, and well-ventilated area away from heat, moisture, strong oxidants and acids. Storage in steel or concrete bins and silos, or plastic lined bags, is appropriate.

8. Exposure Controls / Personal Protection

Specific Control Parameter:

OSHA-Permissible Exposure Limit (PEL): 5 mg/m³ (TWA)

ACGIH-Threshold Limit Value (TLV): 2 mg/m³ (TWA)

Engineering Controls:

Safety shower, eye bath and where dust could be generated whilst handling the product, mechanical exhaust are required. For bulk deliveries, closed pumping systems are recommended.

Personal Protective Equipment:

Skin: Personnel should wear suitable protective work wear and safety boots (such as AS/NZS 2210.3) and suitable protective gloves (such as rubber or PVC gloves, AS2161) when in direct contact with the product. If there is potential for prolonged and /or excessive skin contact, it is recommended to wear cotton overalls buttoned at neck and wrist.

Remove clothing that has become contaminated with wet or dry product to avoid prolonged contact with the skin. If product gets into boots, remove socks



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and boots immediately and wash skin thoroughly. Wash work clothes regularly, to avoid contamination of face and lips and ingestion, wash hands before eating or smoking.

Eyes: Avoid contact with eyes. Safety glasses with side shields or safety goggles should be worn (AS1136/1337).

Respiratory: In dusty environments, use a respirator such as Class P1 or P2.

9. Physical and Chemical Properties

Physical form:	Solid
Color:	White to grey
Odor:	Odorless
pH:	Approximately 12
Boiling point:	2,850°C (5,162°F)
Melting point:	580°C (1,076°F)
Specific gravity:	3.20 – 3.40
Bulk density:	950 – 1,100 kg/m ³
Vapor density:	1.9
Solubility in Water:	Slightly soluble in water with release of heat, formation of Ca(OH) ₂
%Volatiles:	0 (by volume at 21°C / 70°F)

10. Stability and Reactivity

Stability:	Stable at room temperature in tightly sealed container.
Conditions to avoid:	Heat, Moisture, Acid
Substances to avoid:	Metal, Water, Acids, Air, Alcohols, Fluorine

11. Toxicological Information

General:	No toxicity data available for this material. The available acute toxicity data for the ingredients as published by RTECS (Registry of Toxic Effects of Chemical Substances) are as follows: For calcium hydroxide: LD50 (Oral, Rat): 7340mg/kg Eye Irritation (rabbit): Severe (Standard Draize Test, 10 mg)
Ingestion:	Corrosive to the mouth and throat. May result in ulceration and nausea, vomiting, abdominal pain and diarrhoea.
Eyes:	Irritation and corrosive to the eyes. Over exposure may result in pain, redness, corneal burns and ulceration with possible permanent damage.
Skin:	Irritating and drying to the skin. May cause alkali burns and irritant or allergic dermatitis. Disorders may be aggravated by exposure to dust or contact with wet cement. Prolonged exposure may cause irritant dermatitis.
Inhaled:	Irritating to the nose, throat and respiratory system causing coughing and sneezing. Repeated exposure may cause severe mucous membrane irritation, bronchitis and pneumonia.



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12. Ecological Information

Due to its high pH, 12, a large concentration of this material occurred from improper handling or disposal can be toxic to aquatic life and plants due to acute pH shift.

13. Disposal Consideration

Product: For small amounts, add water very slowly then neutralize with diluted hydrochloric acid to a pH of 6-9 before disposal in accordance to local authority guidelines. Contact a licensed professional waste disposal service to dispose this material.

Packaging: Dispose contaminated packaging in accordance with federal, state and local requirements.

14. Transport Information

Only classified as a dangerous good according to criteria of the ADG code when transported by air.

Transport is usually in bag or sealed bulk rail or road tankers. When transporting in bags, ensure the bags are properly restrained. User needs to avoid generating and breathing dust. Do not transport with chemicals of class: 1 (Explosives), 4.3 (dangerous when wet), 5.1 (oxidizing agents), 5.2 (organic peroxides), 6 (toxics – where the toxic is cyanide and the corrosive is an acid), 7 (radio actives), 8 (where products are acid/alkali) and foodstuffs.

UN Number:	1910	Packing Group:	111
Shipping Name:	Calcium Oxide	Hazchem Code:	4W
Class and subsidiary risk:	None Allocated	Emergency procedure guide:	8A2
EPG:	None Allocated	DG class and subsidiary risk:	Class 8 (air transport only)

15. Regulatory Information

National Fire Protection Association (NFPA) Ratings:

Health: 1
Flammability: 0
Reactivity: 1

16. Other Information

The above formation represents the best information currently available to us. We make no warranty with respect to such information and assume no liability resulting from its use. Users shall develop their own method to determine the suitability of the information for their particular purposes. In no event shall Chememan Co., Ltd. be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if Chememan Co., Ltd. has been advised of the possibility of such damages.
