



Infosafe No™	1CH1M	Issue Date : July 2018	RE-ISSUED by CHEMSUPP
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Product Name : **CALCIUM HYDROXIDE**

Classified as hazardous

1. Identification

GHS Product Identifier	CALCIUM HYDROXIDE	
Company Name	CHEM-SUPPLY PTY LTD (ABN 19 008 264 211)	
Address	38 - 50 Bedford Street GILLMAN SA 5013 Australia	
Telephone/Fax Number	Tel: (08) 8440-2000 Fax: (08) 8440-2001	
Recommended use of the chemical and restrictions on use	Manufacture of mortar, plaster, cement and other building and paving materials, lubricants, drilling fluids, petrochemicals, fireproof coatings, pesticides, and water-based paints; soil conditioner, disinfectant, water softening agent, food additive, sugar refiner, component of dental cement, accelator for low grade rubber compounds; used for uranium recovery and in the iron, steel industry and laboratory reagent.	
Other Names	<u>Name</u>	<u>Product Code</u>
	CALCIUM HYDROXIDE LR	CL011
	CALCIUM HYDROXIDE AR	CA011
	Caustic lime	
	Calcium hydrate	
	Slaked lime	
	Agricultural lime	
	Lime water	
	Hydrated Lime	
	CALCIUM HYDROXIDE EP, USP, FCC	CP011
Other Information	EMERGENCY CONTACT NUMBER: +61 08 8440 2000 Business hours: 8:30am to 5:00pm, Monday to Friday.	

Chem-Supply Pty Ltd does not warrant that this product is suitable for any use or purpose. The user must ascertain the suitability of the product before use or application intended purpose. Preliminary testing of the product before use or application is recommended. Any reliance or purported reliance upon Chem-Supply Pty Ltd with respect to any skill or judgement or advice in relation to the suitability of this product of any purpose is disclaimed. Except to the extent prohibited at law, any condition implied by any statute as to the merchantable quality of this product or fitness for any purpose is hereby excluded. This product is not sold by description. Where the provisions of Part V, Division 2 of the Trade Practices Act apply, the liability of Chem-Supply Pty Ltd is limited to the replacement of supply of equivalent goods or payment of the cost of replacing the goods or acquiring equivalent goods.

2. Hazard Identification

GHS classification of the substance/mixture	Eye Damage/Irritation: Category 1 Skin Corrosion/Irritation: Category 2 Specific target organ toxicity - Single Exposure Category 3 (respiratory tract irritation)
Signal Word (s)	DANGER
Hazard Statement (s)	H315 Causes skin irritation. H318 Causes serious eye damage. H335 May cause respiratory irritation.
Pictogram (s)	Corrosion, Exclamation mark



Precautionary statement – Prevention
P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
P280 Wear protective gloves/protective clothing/eye protection/face protection.

Precautionary statement – Response
P302+P352 IF ON SKIN: Wash with plenty of soap and water.
P332+P313 If skin irritation occurs: Get medical advice/attention.
P362 Take off contaminated clothing and wash before reuse.
P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P312 Call a POISON CENTER or doctor/physician if you feel unwell.



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Precautionary statement – Storage	P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Precautionary statement – Disposal	P310 Immediately call a POISON CENTER or doctor/physician. P403+P233 Store in a well-ventilated place. Keep container tightly closed. P405 Store locked up. P501 Dispose of contents/container to an approved waste disposal plant.

3. Composition/information on ingredients

Chemical	Solid				
Characterization					
Ingredients	<u>Name</u>	<u>CAS</u>	<u>Proportion</u>	<u>Hazard Symbol</u>	<u>Risk Phrase</u>
	Calcium hydroxide	1305-62-0	100 %		

4. First-aid measures

Inhalation	If inhaled, remove from contaminated area to fresh air immediately. Apply artificial respiration if not breathing. If breathing is difficult, give oxygen. Immediately obtain medical aid if cough or other symptoms appear.
Ingestion	Rinse mouth thoroughly with water immediately, repeat until all traces of product have been removed. DO NOT INDUCE VOMITING. Seek medical advice if effects persist.
Skin	Immediately remove contaminated clothing and wash affected area with water for at least 15 minutes. Ensure contaminated clothing is washed before re-use. Seek immediate medical advice /attention depending on the severity.
Eye contact	If skin or hair contact occurs, remove contaminated clothing and flush skin and hair with running water. Immediately irrigate with copious quantity of water for at least 15 minutes. Eyelids to be held open. Seek medical attention.
First Aid Facilities	Eye wash fountains and safety showers should be located near any area where calcium hydroxide is handled.
Advice to Doctor	Treat symptomatically based on judgement of doctor and individual reactions of the patient.
Other Information	For advice, contact a Poisons Information Centre (Phone eg Australia 13 1126; New Zealand 0800 764 766) or a doctor.

5. Fire-fighting measures

Specific Methods	Use extinguishing media most appropriate for the surrounding fire.
Specific hazards arising from the chemical	Material does not burn. Fire or heat may produce irritating, poisonous and/or corrosive gases. Containers may explode when heated. Runoff may pollute waterways.
Precautions in connection with Fire	Wear SCBA and structural firefighter's uniform.

6. Accidental release measures

Personal Precautions	Avoid raising a dust cloud. Evacuate the area of all non-essential personnel. Avoid contact with skin, eyes, nose, mouth.
Personal Protection	Wear protective clothing specified for normal operations (see Section 8)
Clean-up Methods - Small Spillages	Sweep up (avoid generating dust) and using clean non-sparking tools transfer to a clean, suitable, clearly labelled container for disposal in accordance with local regulations.

7. Handling and storage

Conditions for safe storage, including any incompatibilities	Store in air-tight, water-tight containers in a cool, dry place. Store in suitable, labelled containers. Keep containers closed when not in use and when empty. Protect from damage. Avoid any dust build-up by frequent cleaning and suitable construction of storage area.
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8. Exposure controls/personal protection

Occupational exposure limit values	<u>Name</u>	<u>STEL</u>	<u>TWA</u>		
		<u>mg/m3</u>	<u>ppm</u>	<u>mg/m3</u>	<u>ppm</u>
					<u>Footnote</u>



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Other Exposure Information	Calcium hydroxide A time weighted average (TWA) has been established for Calcium hydroxide (Safe Work Australia) of 5 mg/m ³ . The exposure value at the TWA is the average airborne concentration of a particular substance when calculated over a normal 8 hour working day for a 5 day working week.	5
Appropriate engineering controls	In industrial situations maintain the concentrations values below the TWA. This may be achieved by process modification, use of local exhaust ventilation, capturing substances at the source, or other methods. These methods should be used in preference to personal protective equipment.	
Respiratory Protection	Where ventilation is not adequate, respiratory protection may be required. Avoid breathing dust, vapours or mists. Respiratory protection should comply with AS 1716 - Respiratory Protective Devices and be selected in accordance with AS 1715 - Selection, Use and Maintenance of Respiratory Protective Devices. Filter capacity and respirator type depends on exposure levels. In event of emergency or planned entry into unknown concentrations a positive pressure, full-facepiece SCBA should be used. If respiratory protection is required, institute a complete respiratory protection program including selection, fit testing, training, maintenance and inspection.	
Eye Protection	The use of a face shield, chemical goggles or safety glasses with side shield protection as appropriate. Must comply with Australian Standards AS 1337 and be selected and used in accordance with AS 1336. Maintain eye and quick drench facilities in work area.	
Hand Protection	Hand protection such as rubber or plastic gloves should comply with AS 2161 Industrial Safety Gloves and Mittens (Excluding Electrical and Medical Gloves).	
Personal Protective Equipment	Personal protective equipment should not solely be relied upon to control risk and should only be used when all other reasonably practicable control measures do not eliminate or sufficiently minimise risk. Guidance in selecting personal protective equipment can be obtained from Australian, Australian/New Zealand or other approved standards.	
Footwear	Safety boots in industrial situations is advisory, foot protection should comply with AS 2210, Occupational protective footwear - Guide to selection, care and use.	
Body Protection	Clean clothing or protective clothing should be worn, preferably with and apron. Clothing for protection against chemicals should comply with AS 3765 Clothing for Protection Against Hazardous Chemicals.	
Hygiene Measures	Do not eat, drink or smoke in work areas. Wash hands thoroughly after handling this material. Maintain good housekeeping.	

9. Physical and chemical properties

Form	Solid
Appearance	Soft, white or greyish-white solid.
Odour	Odourless.
Melting Point	Decomposes @ 580 °C
Solubility in Water	1.7 g/l (20 °C)
Solubility in Organic Solvents	Soluble in acids, glycerol, sugar and ammonia salt solutions; insoluble in alcohol.
Specific Gravity	2.24 (@ 20 °C, water=1)
pH	12.4 (saturated solution @ 25 °C)
Vapour Pressure	Zero
Flammability	Non combustible material.
Explosion Properties	Not considered to be an explosion hazard.
Molecular Weight	74.10

10. Stability and reactivity

Chemical Stability	Stable under ordinary conditions of use and storage. Readily absorbs carbon dioxide from air to form calcium carbonate.
Conditions to Avoid	Air and incompatibles.
Incompatible Materials	Strong acids, maleic anhydride, nitro organic compounds, light metals and phosphorus.
Hazardous Decomposition Products	Calcium oxide.
Hazardous Polymerization	Will not occur.



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11. Toxicological Information**Acute Toxicity - Oral** Oral LD50 (rat): 7340 mg/kg.**Ingestion** May cause a burning sensation, mild corrosion of the mouth, throat and esophagus, and stomach cramps may result.**Inhalation** Dusts or mists may be irritating to the nose, throat and upper respiratory tract.**Skin** Burning sensation and inflammation can result.**Eye** Risk of serious damage to eye.**Carcinogenicity** No evidence of carcinogenic properties.**Mutagenicity** No evidence of mutagenic properties.**12. Ecological information****Ecotoxicity** Harmful effect due to pH shift. Forms corrosive mixtures with water even if diluted. Neutralisation possible in waste water treatment plants.**Persistence and degradability** Methods for the determination of biodegradability are not applicable to inorganic substances. Concentration in organisms is not to be expected.**Acute Toxicity - Fish** Clarias gariepinus LC50: 34 mg/l /96 h.**13. Disposal considerations****Disposal Considerations** Whatever cannot be saved for recovery or recycling should be handled as hazardous waste and disposed of according to relevant local, state and federal government regulations.**14. Transport information****Transport Information** Not classified as a Dangerous Good according to the Australian Code for the Transport of Dangerous Goods by Road and Rail.**U.N. Number** NIL**15. Regulatory information****Regulatory Information** Listed in the Australian Inventory of Chemical Substances (AICS). Not listed under WHS Regulation 2011, Schedule 10 - Prohibited carcinogens, restricted carcinogens and restricted hazardous chemicals.**Poisons Schedule** Not Scheduled**16. Other Information****Literature References** Commonwealth Department of Health and Aged Care, 'Standard for the Uniform Scheduling of Drugs and Poisons No. 23', Commonwealth of Australia, Canberra 2002.

Lewis, Richard J. Sr. 'Hawley's Condensed Chemical Dictionary 13th. Ed.', Rev., John Wiley & Sons, Inc., NY, 1997.

National Road Transport Commission, 'Australian Dangerous Goods Code 6th. Ed.', AGPS, Canberra, 1998.

South Australia Government, 'Approved Code of Practice for the Labelling of Workplace Substances', 1995.

Standards Australia, 'SAA/SNZ HB76:1997 Dangerous Goods - Initial Emergency Response Guide', Standards Australia/Standards New Zealand, 1997.

Worksafe Australia, 'Approved Criteria for Classifying Hazardous Substances [NOHSC:1008(1999)]', AusInfo, Canberra 1999.

Worksafe Australia, 'List of Designated Hazardous Substances [NOHSC:10005(1999)]', AusInfo, Canberra 1999.

Worksafe Australia, 'National Code of Practice for the Labelling of Workplace Substances [NOHSC:2012(1994)]', AGPS, Canberra 1994.

Worksafe Australia, 'National Exposure Standards for Atmospheric Contaminants in the Occupational Environment [NOHSC:1003(1995)]', AusInfo, Canberra 1995.

Contact Person/Point Paul McCarthy Ph. (08) 8440 2000 **DISCLAIMER STATEMENT:**

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Safety Data Sheet

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Empirical Formula & Ca(OH)₂

Structural Formula

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