

SAFETY DATA SHEET

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

1.1 Product identifier

Product name HYDRATED LIME

Synonyms BUILDERS LIME ● CALCIUM HYDRATE ● CALCIUM HYDROXIDE ● GARDEN LIME ● LIME HYDRATE ●

PLASTERERS LIME • SLAKED LIME

1.2 Uses and uses advised against

Uses CONSTRUCTION MATERIAL ● ENVIRONMENTAL APPLICATIONS ● SEWAGE TREATMENT ● SOIL

STABILISATION • WATER TREATMENT

1.3 Details of the supplier of the product

Supplier name MICRONISED MINERAL SOLUTIONS PTY LTD

Address 10 Campion Rd, East Arm, NT, 0828, AUSTRALIA

Telephone 08 8947 1872; 1800 127 406

Email admin@micronisedminerals.com

Website http://micronisedminerals.com.au/

1.4 Emergency telephone numbers

Emergency 08 8947 1872

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

CLASSIFIED AS HAZARDOUS ACCORDING TO SAFE WORK AUSTRALIA CRITERIA

GHS classifications Skin Corrosion/Irritation: Category 2

Serious Eye Damage / Eye Irritation: Category 1

Respiratory Sensitisation: Category 1

Specific Target Organ Systemic Toxicity (Single Exposure): Category 3

Carcinogenicity: Category 1A

2.2 GHS Label elements

Signal word DANGER

Pictograms







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Hazard statements

H315 Causes skin irritation. H318 Causes serious eye damage.

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

H335 May cause respiratory irritation.

H350 May cause cancer.

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Prevention statements

P201 Obtain special instructions before use.

P202 Do not handle until all safety precautions have been read and understood.

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

P264 Wash thoroughly after handling.

P271 Use only outdoors or in a well-ventilated area.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P285 In case of inadequate ventilation wear respiratory protection.

Response statements

P302 + P352 IF ON SKIN: Wash with plenty of soap and water.

P304 + P340 IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to

do. Continue rinsing.

P308 + P313 IF exposed or concerned: Get medical advice/ attention.
P310 Immediately call a POISON CENTER or doctor/physician.
P321 Specific treatment is advised - see first aid instructions.
P362 Take off contaminated clothing and wash before re-use.

Storage statements

P403 + P233 Store in a well-ventilated place. Keep container tightly closed.

P405 Store locked up.

Disposal statements

P501 Dispose of contents/container in accordance with relevant regulations.

2.3 Other hazards

No information provided.

3. COMPOSITION/ INFORMATION ON INGREDIENTS

3.1 Substances / Mixtures

Ingredient	CAS Number	EC Number	Content
CALCIUM HYDROXIDE	1305-62-0	215-137-3	90 to 95%
ALUMINIUM OXIDE	1344-28-1	215-691-6	<2%
SILICON DIOXIDE	7631-86-9	231-545-4	0.5 to 2%
MAGNESIUM HYDROXIDE	1309-42-8	215-170-3	0.5 to 1%
QUARTZ (CRYSTALLINE SILICA)	14808-60-7	238-878-4	<1%
IRON OXIDE (FE2O3)	1309-37-1	215-168-2	<0.4%
WATER	7732-18-5	231-791-2	0.1 to 2.5%

4. FIRST AID MEASURES

4.1 Description of first aid measures

Eye If in eyes, hold eyelids apart and flush continuously with running water. Continue flushing until advised to

stop by a Poisons Information Centre, a doctor, or for at least 15 minutes.

Inhalation If inhaled, remove from contaminated area. Apply artificial respiration if not breathing.

Skin If skin or hair contact occurs, remove contaminated clothing and flush skin and hair with running water.

Continue flushing with water until advised to stop by a Poisons Information Centre or a doctor.

Ingestion For advice, contact a Poisons Information Centre on 13 11 26 (Australia Wide) or a doctor (at once). If

swallowed, do not induce vomiting. Rinse mouth out with water and give plenty of water to drink.

First aid facilities Eye wash facilities and safety shower should be available.

4.2 Most important symptoms and effects, both acute and delayed

Irritating to the eyes, skin and respiratory system, with possible burns.

4.3 Immediate medical attention and special treatment needed

Treat symptomatically.

5. FIRE FIGHTING MEASURES



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5.1 Extinguishing media

Use an extinguishing agent suitable for the surrounding fire.

5.2 Special hazards arising from the substance or mixture

Non flammable. May evolve toxic gases if strongly heated.

5.3 Advice for firefighters

No fire or explosion hazard exists.

5.4 Hazchem code

None allocated.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Wear Personal Protective Equipment (PPE) as detailed in section 8 of the SDS. Clear area of all unprotected personnel. Contact emergency services where appropriate.

6.2 Environmental precautions

Prevent product from entering drains and waterways.

6.3 Methods of cleaning up

Contain spillage, then collect and place in suitable containers for reuse or disposal. Avoid generating dust.

6.4 Reference to other sections

See Sections 8 and 13 for exposure controls and disposal.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling

Before use carefully read the product label. Use of safe work practices are recommended to avoid eye or skin contact and inhalation. Observe good personal hygiene, including washing hands before eating. Prohibit eating, drinking and smoking in contaminated areas.

7.2 Conditions for safe storage, including any incompatibilities

Store in a cool, dry, well ventilated area, removed from incompatible substances and foodstuffs. Ensure packages are adequately labelled, protected from physical damage and sealed when not in use. Protect from moisture.

7.3 Specific end uses

No information provided.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control parameters

Exposure standards

Ingredient	Reference	TWA		STEL	
	Kelelelice	ppm	mg/m³	ppm	mg/m³
Aluminium oxide (a)	SWA (AUS)		10		
Calcium hydroxide	SWA (AUS)		5		
Fumed silica (respirable dust)	SWA (AUS)		2		
Iron oxide fume (Fe2O3) (as Fe)	SWA (AUS)		5		
Quartz (respirable dust)	SWA (AUS)		0.1		

Biological limits

No biological limit values have been entered for this product.

8.2 Exposure controls

Engineering controls

Avoid inhalation. Use in well ventilated areas. Where an inhalation risk exists, mechanical extraction ventilation is recommended. Maintain dust levels below the recommended exposure standard.

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PPE

Eye / Face Wear dust-proof goggles. When using large quantities or where heavy contamination is likely, wear a

faceshield.

Wear PVC or rubber gloves. Hands

When using large quantities or where heavy contamination is likely, wear coveralls. **Body**

Where an inhalation risk exists, wear a Class P1 (Particulate) respirator. At high dust levels, wear a Respiratory

Powered Air Purifying Respirator (PAPR) with Class P3 (Particulate) filter or a Class P3 (Particulate)

respirator.



9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance WHITE TO OFF-WHITE POWDER

Odour **ODOURLESS Flammability** NON FLAMMABLE Flash point **NOT RELEVANT Boiling point NOT AVAILABLE Melting point NOT AVAILABLE Evaporation rate NOT AVAILABLE** рΗ 12 (Approximately) **NOT AVAILABLE** Vapour density

Specific gravity 2.4 to 2.8 Solubility (water) **INSOLUBLE NOT AVAILABLE** Vapour pressure Upper explosion limit **NOT RELEVANT** Lower explosion limit NOT RELEVANT **Partition coefficient NOT AVAILABLE NOT AVAILABLE Autoignition temperature**

580°C **Decomposition temperature**

NOT AVAILABLE Viscosity Explosive properties NOT AVAILABLE Oxidising properties NOT AVAILABLE Odour threshold NOT AVAILABLE

9.2 Other information

Bulk density 450 kg/m3 to 800 kg/m3 **Particle Size** < 100 µm (9 %)

10. STABILITY AND REACTIVITY

10.1 Reactivity

Exothermic reaction with strong acids. May absorb carbon dioxide from the surrounding atmosphere to form calcium carbonate.

10.2 Chemical stability

Stable under recommended conditions of storage.

10.3 Possibility of hazardous reactions

Polymerization will not occur.

10.4 Conditions to avoid

Avoid contact with incompatible substances.

10.5 Incompatible materials

Incompatible (violently) with acids (e.g. nitric acid), maleic anhydride, nitroethane, nitromethane, nitroparaffins, nitropropane and phosphorus.

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10.6 Hazardous decomposition products

May evolve toxic gases if heated to decomposition.

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity Ingestion may result in burns of the mouth and throat, as well as a danger of perforation of the oesophagus

and the stomach.

Information available for the ingredients:

Ingredient	Oral LD50	Dermal LD50	Inhalation LC50
CALCIUM HYDROXIDE	7300 mg/kg (mouse)		
ALUMINIUM OXIDE	> 5000 mg/kg (rat)		
SILICON DIOXIDE	3160 mg/kg (rat)		
MAGNESIUM HYDROXIDE	8500 mg/kg (rat, mouse)		
IRON OXIDE (FE2O3)	> 5000 mg/kg (rat)		> 210 mg/m³/2wks (rat)

Skin Causes skin irritation. Contact may result in irritation, redness, pain and rash. May result in burns with

prolonged contact.

Eye Causes serious eye damage. Contact may result in irritation, lacrimation, pain, redness and possible

permanent damage.

Sensitisation Not classified as causing skin sensitisation. May cause allergy or asthma symptoms or breathing difficulties if

inhaled.

Mutagenicity Not classified as a mutagen.

Carcinogenicity Crystalline silica is classified as carcinogenic to humans (IARC Group 1). However, there is a body of

evidence supporting the fact that increased cancer risk would be limited to people already suffering from

silicosis.

Reproductive Not classified as a reproductive toxin.

STOT - single exposure

Irritating to the respiratory system. Over exposure to dust may result in severe mucous membrane irritation of

nose and throat, coughing and bronchitis.

STOT - repeated

exposure

Not classified as causing organ damage from repeated exposure.

Aspiration Not classified as causing aspiration.

12. ECOLOGICAL INFORMATION

12.1 Toxicity

Harmful effect due to pH shift. Forms corrosive and highly reactive mixtures with water.

12.2 Persistence and degradability

Neutralised to calcium carbonate by absorption of atmospheric carbon dioxide and is not degraded by oxidation.

12.3 Bioaccumulative potential

Calcium hydroxide does not bioaccumulate in the environment.

12.4 Mobility in soil

This product has low mobility in soil.

12.5 Other adverse effects

No information provided.

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Waste disposal Neutralise with dilute acid (e.g. 3 mol/L hydrochloric acid) or similar. For small amounts, absorb with sand or

similar and dispose of to an approved landfill site. Contact the manufacturer/supplier for additional

information (if required).

Legislation Dispose of in accordance with relevant local legislation.

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14. TRANSPORT INFORMATION

NOT CLASSIFIED AS A DANGEROUS GOOD BY THE CRITERIA OF THE ADG CODE. IMDG OR IATA

	LAND TRANSPORT (ADG)	SEA TRANSPORT (IMDG / IMO)	AIR TRANSPORT (IATA / ICAO)
14.1 UN Number	None allocated.	None allocated.	None allocated.
14.2 Proper Shipping Name	None allocated.	None allocated.	None allocated.
14.3 Transport hazard class	None allocated.	None allocated.	None allocated.
14.4 Packing Group	None allocated.	None allocated.	None allocated.

14.5 Environmental hazards

No information provided.

14.6 Special precautions for user

Hazchem code None allocated.

15. REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

Poison schedule A poison schedule number has not been allocated to this product using the criteria in the Standard for the

Uniform Scheduling of Medicines and Poisons (SUSMP).

Classifications Safework Australia criteria is based on the Globally Harmonised System (GHS) of Classification and

Labelling of Chemicals.

The classifications and phrases listed below are based on the Approved Criteria for Classifying Hazardous

Substances [NOHSC: 1008(2004)].

Hazard codes Carc. Carcinogen

Xi Irritant

Risk phrases R37/38 Irritating to respiratory system and skin.

R42 May cause sensitisation by inhalation.

R49 May cause cancer by inhalation.

Safety phrases S22 Do not breathe dust.

S24/25 Avoid contact with skin and eyes.

S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice

S28 After contact with skin, wash immediately with plenty of water.

S36 Wear suitable protective clothing.

Inventory listings AUSTRALIA: AICS (Australian Inventory of Chemical Substances)

All components are listed on AICS, or are exempt.

16. OTHER INFORMATION

Additional information

RESPIRATORS: In general the use of respirators should be limited and engineering controls employed to avoid exposure. If respiratory equipment must be worn ensure correct respirator selection and training is undertaken. Remember that some respirators may be extremely uncomfortable when used for long periods. The use of air powered or air supplied respirators should be considered where prolonged or repeated use is necessary.

PERSONAL PROTECTIVE EQUIPMENT GUIDELINES:

The recommendation for protective equipment contained within this report is provided as a guide only. Factors such as form of product, method of application, working environment, quantity used, product concentration and the availability of engineering controls should be considered before final selection of personal protective equipment is made.



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HEALTH EFFECTS FROM EXPOSURE:

It should be noted that the effects from exposure to this product will depend on several factors including: form of product; frequency and duration of use; quantity used; effectiveness of control measures; protective equipment used and method of application. Given that it is impractical to prepare a report which would encompass all possible scenarios, it is anticipated that users will assess the risks and apply control methods where appropriate.

Abbreviations ACGIH American Conference of Governmental Industrial Hygienists

CAS # Chemical Abstract Service number - used to uniquely identify chemical compounds

CNS Central Nervous System

EC No. EC No - European Community Number

EMS Emergency Schedules (Emergency Procedures for Ships Carrying Dangerous

Goods)

GHS Globally Harmonized System

GTEPG Group Text Emergency Procedure Guide
IARC International Agency for Research on Cancer

LC50 Lethal Concentration, 50% / Median Lethal Concentration

LD50 Lethal Dose, 50% / Median Lethal Dose

mg/m³ Milligrams per Cubic Metre
OEL Occupational Exposure Limit

pH relates to hydrogen ion concentration using a scale of 0 (high acidic) to 14 (highly

alkaline).

ppm Parts Per Million

STEL Short-Term Exposure Limit

STOT-RE Specific target organ toxicity (repeated exposure)
STOT-SE Specific target organ toxicity (single exposure)

SUSMP Standard for the Uniform Scheduling of Medicines and Poisons

SWA Safe Work Australia
TLV Threshold Limit Value
TWA Time Weighted Average

Report status

This document has been compiled by RMT on behalf of the manufacturer, importer or supplier of the product and serves as their Safety Data Sheet ('SDS').

It is based on information concerning the product which has been provided to RMT by the manufacturer, importer or supplier or obtained from third party sources and is believed to represent the current state of knowledge as to the appropriate safety and handling precautions for the product at the time of issue. Further clarification regarding any aspect of the product should be obtained directly from the manufacturer, importer or supplier.

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