SAFETY DATA SHEET



1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

1.1 Product identifier

Product name HYDRATED LIME

Synonyms ADELAIDE BRIGHTON HYDRATED LIME ● BLUE CIRCLE GENERAL PURPOSE LIME ● BLUE CIRCLE

HYDRATED LIME ● BLUE CIRCLE PLASTERLIME ● CALCIUM HYDRATE ● CALCIUM HYDROXIDE ● GENERAL PURPOSE LIME ● LIME HYDRATE ● PLASTER LIME ● PREMIUM LIME ● SLAKED LIME

1.2 Uses and uses advised against

Uses BINDING AGENT • FILLER • MINERAL PROCESSING • MORTAR • NEUTRALISING AGENT • PH

CONTROL • REAGENT • SOIL STABILISATION • WATER TREATMENT

1.3 Details of the supplier of the product

Supplier name BORAL AUSTRALIA

Address Level 18, 15 Blue Street, North Sydney, NSW, 2060, AUSTRALIA

Telephone (02) 9220 6300

Website http://www.boral.com.au

1.4 Emergency telephone numbers

Emergency 1800 555 477 (8am – 5pm WST)
Emergency (A/H) 13 11 26 (Poisons Information Centre)

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

CLASSIFIED AS HAZARDOUS ACCORDING TO SAFE WORK AUSTRALIA CRITERIA

Physical Hazards

Not classified as a Physical Hazard

Health Hazards

Skin Corrosion/Irritation: Category 2

Serious Eye Damage / Eye Irritation: Category 1

Specific Target Organ Toxicity (Single Exposure): Category 3 (Respiratory Irritation)

Carcinogenicity: Category 1

Specific Target Organ Toxicity (Repeated Exposure): Category 2

Environmental Hazards

Not classified as an Environmental Hazard

2.2 GHS Label elements

Signal word DANGER

Pictograms







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Hazard statements

H315 Causes skin irritation.
H318 Causes serious eye damage.

H335 May cause respiratory irritation.
H350i May cause cancer by inhalation.

H373 May cause damage to organs through prolonged or repeated exposure.



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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.

P260 Do not breathe 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.

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	>88%
QUARTZ (CRYSTALLINE SILICA)	14808-60-7	238-878-4	<3%
CALCIUM CARBONATE	471-34-1	207-439-9	<2%
ALUMINIUM OXIDE	1344-28-1	215-691-6	<1%
CALCIUM OXIDE	1305-78-8	215-138-9	<1%
MAGNESIUM HYDROXIDE	1309-42-8	215-170-3	<1%
IRON OXIDE (FE2O3)	1309-37-1	215-168-2	<0.5%
IMPURITIES	-	-	<1%
MAGNESIUM OXIDE	1309-48-4	215-171-9	<1%

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. If available, immediately flush eyes with Diphoterine® solution. The use of Diphoterine® has been shown to significantly reduce the risk of

permanent injury.

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. If available,

immediately flush skin and hair with Diphoterine® solution.

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

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swallowed, do not induce vomiting.

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.



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4.3 Immediate medical attention and special treatment needed

Treat as for moderate to strong alkali and symptomatically.

5. FIRE FIGHTING MEASURES

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.

7.3 Specific end uses

No information provided.

ChemAlert.

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8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control parameters

Exposure standards

Ingredient	Reference	TWA		STEL	
ingredient	Reference	ppm	mg/m³	ppm	mg/m³
Aluminium & compounds	SWA [Proposed]		1		
Aluminium oxide (a)	SWA [AUS]		10		
Calcium carbonate (Limestone, Marble, Whiting)	SWA [AUS]		10		
Calcium hydroxide	SWA [AUS]		5		
Calcium hydroxide	SWA [Proposed]		1		
Calcium oxide	SWA [AUS]		2		
Calcium oxide	SWA [Proposed]		1		
Iron oxide fume (Fe2O3) (as Fe)	SWA [AUS]		5		
Magnesium oxide (fume)	SWA [AUS]		10		
Quartz (respirable dust)	SWA [AUS]		0.1		
Quartz (respirable dust)	SWA [Proposed]		0.05		
Quartz (respirable dust)	WorkSafe VIC		0.05		

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.

PPE

Eye / Face Wear safety glasses or dust-proof goggles when handling material to avoid contact with eyes.

Hands Wear PVC or rubber gloves when handling material to prevent skin contact.

Body Wear long sleeved shirt and full-length trousers.

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

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 FINE WHITE POWDER
Odour ODOURLESS
Flammability NON FLAMMABLE
Flash point NOT RELEVANT

Boiling point 580°C **Melting point** 580°C

Evaporation rate NOT AVAILABLE

pH 13

Vapour density NOT AVAILABLE

Specific gravity 2.1 - 2.3 Solubility (water) 1.6 g/L

Vapour pressure
Upper explosion limit
Lower explosion limit
Partition coefficient
Autoignition temperature
NOT AVAILABLE
NOT RELEVANT
NOT AVAILABLE
NOT AVAILABLE

Decomposition temperature 580°C

ChemAlert.

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9.1 Information on basic physical and chemical properties

Viscosity

Explosive properties

Oxidising properties

Odour threshold

NOT AVAILABLE

NOT AVAILABLE

NOT AVAILABLE

9.2 Other information

Density 450 - 500 kg/m³ (Bulk)

10. STABILITY AND REACTIVITY

10.1 Reactivity

Carefully review all information provided in sections 10.2 to 10.6.

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. Calcium hydroxide, or hydrated lime, is already neutralised and is not expected to undergo oxidation.

10.6 Hazardous decomposition products

May evolve calcium oxides when heated to decomposition.

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity No known toxicity data is available for this product. Based on available data, the classification criteria are not

met.

Information available for the ingredients:

Ingredient	Oral LD50	Dermal LD50	Inhalation LC50
CALCIUM HYDROXIDE	7300 mg/kg (mouse)		
CALCIUM CARBONATE	> 2000 mg/kg (rat)	> 2000 mg/kg (rat)	> 3.0 mg/L
ALUMINIUM OXIDE	> 5000 mg/kg (rat)		
MAGNESIUM HYDROXIDE	8500 mg/kg (rat, mouse)		

Skin Irritating to the skin. Contact may result in irritation, redness, pain, rash, dermatitis and possible skin burns.

Eye Irritating to the eyes. Contact may result in irritation, lacrimation, pain, redness, corneal burns and possible

permanent damage.

Sensitisation Not classified as causing skin or respiratory sensitisation.

Mutagenicity Insufficient data available to classify 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 Insufficient data available to classify as a reproductive toxin.

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

exposure nose and throat, coughing and bronchitis.

STOT - repeatedRepeated exposure to respirable silica may result in pulmonary fibrosis (silicosis). Silicosis is a fibronodular lung disease caused by deposition in the lungs of fine respirable particles of crystalline silica. Principal

symptoms of silicosis are coughing and breathlessness.

Aspiration This product does not present an aspiration hazard.

12. ECOLOGICAL INFORMATION



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12.1 Toxicity

The aquatic toxicity of calcium hydroxide is due to its alkalinity.

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

Not available, but considered low.

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.

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.

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

All components are listed on AICS, or are exempt.

16. OTHER INFORMATION

Additional information 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

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

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

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

alkaline).

Parts Per Million ppm

Short-Term Exposure Limit STEL

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 Threshold Limit Value TLV Time Weighted Average **TWA**

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.

While RMT has taken all due care to include accurate and up-to-date information in this SDS, it does not provide any warranty as to accuracy or completeness. As far as lawfully possible, RMT accepts no liability for any loss, injury or damage (including consequential loss) which may be suffered or incurred by any person as a consequence of their reliance on the information contained in this SDS.

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