

Safety Data Sheet

Hydrated Lime

Section 1: Material and Supplier Information

Product Name:	Hydrated Lime
Applicable In:	Australia
Other Names:	Hydrated Lime
Recommended Use:	Hydrated Lime can be used as neutralizing agent in water and sewage treatment, a binder in mortars and renders, and soil stabilization.
Company Details:	Independent Cement & Lime Pty Ltd 750 Lorimer Street Port Melbourne, VIC 3207 ABN 49 005 829 550
Emergency contact details:	Contact Person: Technical Manager Telephone: Office hours 03 9676 0000 or Poison information center 13 11 26
Phone:	VIC 03 9676 0000
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This Safety Data Sheet (SDS) is issued by Independent Cement Pty Ltd in accordance with the Code and guidelines from the Australian Safety and Compensation Council (ASCC). The information in it must not be altered, deleted or added to. Independent Cement Pty Ltd will not accept any responsibility for any changes made to its SDS by any other person or organization. Independent Cement Pty Ltd will issue a new SDS when there is a change in product specifications and/ or ASCC standards, guidelines or regulations.

Section 2: Hazards Identification

Statement of This product is classified as HAZARDOUS according to Safe Work Australia criteria. Not Classified as a dangerous good by the criteria of the ADG code, IMDG or IATA.

GHS Classifications

Skin Corrosion/ Irritation	Criteria 2
Serious Eye Damage/Eye Irritation:	Criteria 1
Specific Target Organ Systematic Toxicity (Repeated Exposure):	Category 2

SIGNAL WORD DANGER

Pictograms



**Independent
Cement**

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Hazard Statements

H315	Causes skin irritation
H318	Causes serious eye damage
H335	May cause respiratory irritation.

Prevention Statements

P261	Avoid breathing dust
P264	Wash skin 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+P321	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present. Continue rinsing. The use of Diphoterine® has been shown to significantly reduce the risk of permanent injury. It is essential that the Diphoterine is used as quickly as possible (ie. within 10 seconds of contact with lime) in order to obtain the maximum benefit from its absorbent and neutralizing properties.
P333 + P313	If skin irritation or rash occurs get medical advice/attention.
P362	Take off contaminated clothing and wash before re-use.

Disposable Statements

P501	Dispose of contents/container in accordance with relevant regulations.
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UN No	None Allocated	Hazchem Code	None Allocated	Pkg Group	None Allocated
DG Class	None Allocated	Subsidiary Risk(s)	None Allocated	EPG	None Allocated

Section 3: Composition / Information on Ingredients

Ingredient	Formula	Proportion	CAS Number
Calcium hydroxide	Ca(OH) ₂	85-95%	1305-62-0
Magnesium hydroxide	Mg(OH) ₂	0.5-1.5%	1309-42-8



Crystalline silica (Quartz)	SiO ₂	0.4-0.7%	14808-60-7
Aluminum Oxide	Al ₂ O ₃	0-2%	1344-28-1

Section 4: First Aid Measures

Eye:	If Hydrated Lime is splashed in to the eyes flush thoroughly with flowing water until advised to stop by a doctor. If available, immediately flush eyes with Diphoterine solution.
Inhalation:	Remove from dusty area to fresh air. If symptoms persist, seek medical attention.
Skin:	Remove heavily contaminated clothing immediately. Wash off skin thoroughly with water. A shower may be required. Seek medical attention for persistent irritation or burning of the skin. If available, immediately flush eyes with Diphoterine solution.
Ingestion:	Rinse mouth and lips with water. Do not induce vomiting. Give water to drink to dilute stomach contents. If symptoms persist, seek medical attention.
Advice to Doctor:	Treat symptomatically.
First Aid Facilities	Eye wash station.

Additional Information Aggravated Medical Conditions

Inhalation	Over exposure resulting from prolonged and repeated inhalation of dust containing crystalline silica can cause bronchitis, silicosis (scarring of the lung). It may also increase the risk of scleroderma (a disease affecting the connective tissue of the skin, Joints, blood vessels and internal organs) and lung cancer. Epidemiological studies have shown that smoking increases the risk of bronchitis, silicosis (scarring of the lung) and lung cancer in persons exposed to crystalline silica.
Skin	Prolonged and repeated skin contact with Hydrated Lime powder, hydrated lime in wet concrete, mortars and slurries may result in irritant dermatitis or alkaline burns.
Eye	Irritating to the eye. If Hydrated Lime is splashed in to the eye, alkaline burns can cause permanent damage.

Section 5: Fire Fighting

Flammability:	Not flammable. Does not support combustion of other materials.
Fire and Explosion:	No fire or explosion hazard exists.
Extinguishing:	Non-flammable; use suitable extinguishing agent for surrounding fire.
Hazchem Code:	None Allocated



Section 6: Accidental Release Measures

Spillage:	If spill (bulk), contact emergency services if appropriate. Wear dust proof goggles, PVC/rubber gloves, a Class P2 respirator (where an inhalation risk exists), coveralls and rubber boots. Clear area of all unprotected personnel. Prevent spill entering drains or waterways. Collect and place in sealable containers for disposal or reuse. Avoid generating dust.
Emergency Procedures	Follow safety requirements for personal protection under Section 8 Exposure Controls/Personal Protection.

Section 7: Handling and Storage

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.
Storage:	Store in a cool, dry, well ventilated area, removed from excessive moisture and heat.
Property/Environmental	Refer to Section 13.

Section 8: Exposure Controls / Personal Protection

Ventilation	Do not inhale dust/powder. Use with adequate ventilation. Where a dust inhalation hazard exists, mechanical extraction ventilation is recommended. Maintain dust levels below the recommended exposure standard.
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Exposure Standards	Aluminum Oxide (1344-28-1) ES-TWA: 10 mg/m ³ (Respirable Dust) Calcium hydroxide (1305-62-0) ES-TWA: 5 mg/m ³ (Respirable Dust) Iron (III) oxide (1309-37-1) Crystalline Silica (Quartz) (14808-60-7) ES-TWA: 0.1 mg/m ³ (Respirable Dust)
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PPE	Wear dust proof goggles/safety glasses and rubber or PVC gloves. Where an inhalation risk exists, wear a clear P2 respirator. If there is potential for prolonged and/or excessive skin contact, wear a long sleeve shirt and full-length trouser. At high dust levels, wear a Class P3 respirator or a Powered Air Purifying Respirator (PAPR) with class P3 filter.
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Section 9: Physical and Chemical Properties

Appearance	White	Solubility (water)	100 g/L.
Odor	Slight odor	Specific Gravity	2.1 – 2.3
pH (in water)	Approximately 12	% Volatiles	Not Available
Vapor Pressure	Not Available	Flammability	Non-Flammable
Vapor Density	Not Available	Flash Point	Not Relevant
Boiling Point	Not Available	Upper Explosion Limit	Not Relevant
Melting Point	> 580°C	Lower Explosion Limit	Not Relevant
Evaporation Rate	Not Available	Autoignition Temperature	Not Available
Bulk Density	300 - 700 kg/m ³		
Particle Size	99% < 75 µm		

Section 10: Stability and Reactivity

Chemical Stability:	Chemically Stable
Conditions to Avoid:	Keep free of moisture
Incompatible Materials	Incompatible with acid (e.g. hypochlorite), maleic anhydride, nitroethane, nitromethane, nitroparaffins, nitropropane and phosphorus.
Decomposition Products:	May evolve calcium oxides when heated to decomposition
Hazardous Reactions:	None

Section 11: Toxicological Information

Acute Toxicity	No known toxicity data for this product.
Eyes	Irritant upon contact with powder/dust. Over exposure may result in pain, redness, corneal burns and ulceration with possible permanent damage.
Inhalation	Slightly corrosive. Irritating to the respiratory system, causing coughing and sneezing. Over exposure may result in severe mucous membrane irritation and bronchitis. Crystalline silica can cause silicosis (lung disease) with chronic over exposure, however due to low levels present and product application, adverse health effects are not anticipated.
Skin	Irritating to the skin. Prolonged and repeated contact with powder or wetted form may result in skin rash, dermatitis and sensitisation.
Ingestion	Slightly corrosive. Ingestion may result in burns to the mouth and throat, with vomiting and abdominal pain. Due to product form, ingestion is not considered a likely exposure route.
Mutagenicity	Insufficient data available for this product to classify as a mutagen.
Carcinogenicity	Hydrated Lime is not classified as a carcinogen by NOHSC.



Section 12: Ecological Information

Toxicity	The aquatic toxicity of calcium hydroxide is due to its alkalinity.
Persistence and Degradability	Neutralised to calcium carbonate by absorption of atmospheric carbon dioxide and is not degraded by oxidation.
Mobility in Soil	A low mobility would be expected in a landfill situation.

Section 13: Disposal Considerations

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 for additional information.
Legislation	Dispose of in accordance with relevant local legislation. Keep out of sewer stormwater drains.

Section 14: Transport Information

Not classified as a dangerous good by the criteria of the ADG code.
 Transport is by rail or road in bulk or bag form.
 Drivers of trucks transporting bagged products should ensure that the bags are properly restrained.

Shipping Name	None Allocated				
UN No	None Allocated	Hazchem Code	None Allocated	Pkg Group	None Allocated
DG Class	None Allocated	Subsidiary Risk(s)	None Allocated	EPG	None Allocated

Section 15: Regulatory Information

Poison Schedule AICS	A poison schedule number has not been allocated to this product using the criteria in the Standard for the Uniform Scheduling of Drugs and Poisons (SUSDP). All chemicals listed on the Australian Inventory of Chemical Standards (AICS).
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Section 16: Other Information

Additional Information	PERSONAL PROTECTIVE EQUIPMENT GUIDELINES: The Recommendation for protective equipment contained within this SDS report is provided as a guide only. Factors such as method of application, working environment, quantity used, product concentration and the
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availability of engineering controls should be considered before final selection of personal protective equipment is made.

HEALTH EFFECTS FROM EXPOSURE: It should be noted that the effects from exposure to this product will depend on several factors including: 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 an SDS report which would encompass all possible scenarios, it is anticipated that users will assess the risks and apply control methods where appropriate.

ABBREVIATIONS:

mg/m³ – Milligrams per cubic metre

ppm – Parts Per Million

ES-TWA – Exposure Standard - Time Weighted Average

CNS – Central Nervous System

NOS – Not Otherwise Specified

pH – relates to hydrogen ion concentration – this value will relate to a scale of 0 – 14, where 0 is highly acidic and 14 is highly alkaline.

CAS# - Chemical Abstract Service Number – used to uniquely identify chemical compounds.

IARC – International Agency for Research on Cancer.

Report Status

This document has been compiled by Independent Cement and Lime Pty Ltd the manufacturer of the product and serves as the manufacturer's Safety Data Sheet.

While the information in this Safety Data Sheet has been prepared in good faith, Building Product Supplies does not warrant that the information is accurate, complete or up to date.

Contact Point

For further information on this product contact:

Telephone: Office hours 03 9676 0000

Facsimile: 03 9646 4954

Web site: <http://www.independentcement.com.au/>

Advice Note

The information in this document is believed to be accurate. Please check the currency of this SDS by contacting:

03 9676 0000

Or

www.independentcement.com.au/

Each user of any information, or any product referred to, in this Safety Data Sheet must:

- determine whether the information or product is suitable for their purpose;
- assess and control any risks associated with the information or product; and
- obtain professional advice in relation to the use of the information or product.

To the extent permitted by law, Independent Cement and Lime Pty Ltd:

- excludes all representations, warranties and guarantees in relation to any information in this Safety Data Sheet; and



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