

**MATERIAL SAFETY DATA SHEET (MSDS)****Hydrated Lime****THIS PRODUCT IS CLASSIFIED AS HAZARDOUS ACCORDING TO CRITERIA OF WORKSAFE AUSTRALIA IDENTIFICATION**

Product Name: Hydrated Lime

Other Names: Calcium Hydroxide, Limil, Lime, Garden Lime, Calcium Hydrate; (incorrectly as Slaked Lime).

Manufacturer's Product Code: 041087

UN Number: None allocated

Dangerous Goods Class & Subsidiary Risk: None allocated

Hazchem Code: None allocated

Poisons Schedule Number: 1

Use: Neutralising agent in water, sewerage, and soils; binder in mortar; flux in steel production

Physical Description/Properties

Appearance: Fine white or off-white amorphous powder.

Boiling Point/Melting Point: Decomposes to calcium oxide (quick lime) at 580°C

Vapour Pressure: Not applicable

Specific Gravity: 2.24

Flashpoint: Non flammable

Flammable Limits: Not applicable

Solubility in Water: Less than 2% forming an alkaline (caustic) product

Other Properties

Not explosive; no odour; reacts vigorously with acids

<u>Ingredients</u>	<u>CAS Number</u>	<u>Proportion</u>
Calcium Hydroxide Ca(OH) ₂	1305-62-0	High 85% to 95%
Magnesium Hydroxide Mg(OH) ₂	1309-42-8	Low 0.5% to 1.5%

HEALTH HAZARD INFORMATION

Calcium hydroxide and magnesium hydroxide, in water, forms an alkaline (caustic) solution.

ACUTE HEALTH EFFECTS

Swallowing

Very difficult to ingest. Extremely bitter taste and would cause caustic burns to the throat.

Eye/Skin

Has a caustic reaction, and is therefore irritating to the skin and eyes.

Inhalation

Irritating to the respiratory system.

CHRONIC HEALTH EFFECTS

Immediate effects as for Acute Health Effects.

FIRST AID TREATMENT

Skin Contact

Quickly but gently, wipe material off skin. Immediately remove all clothing, including footwear. Wash affected areas thoroughly with plenty of soap and water. If any effects persist seek medical attention.

Eye Contact

Flush eyes immediately with copious amounts of running water, removing foreign bodies if any, for at least 15 minutes. Seek medical/ophthalmic attention.

Inhalation

Remove from area. Keep at rest. Seek medical advice if symptoms persist.

Swallowing

DO NOT INDUCE VOMITING. Rinse mouth out with water or milk and give plenty of water or milk to drink. Seek urgent medical treatment.

PRECAUTIONS FOR USE

EXPOSURE LIMITS***Worksafe Australia Exposure Standard***

Dust (NOS – not otherwise specified): 5 mg/m³ TWA as inspirable dust.

However, where a State or Territory prescribes a lower exposure standard, the lower exposure standard applies.

MANUFACTURER'S RECOMMENDATIONS

Keep exposure to dust as low as practicable. If inspirable dust levels are kept below 2 mg/m³, health problems such as skin, eye and respiratory irritation will be minimised.

ENGINEERING CONTROLS

Avoid generating dust. All work with cement should be carried out in such a way as to minimise exposure to dust and repeated skin contact. Where dust could be generated, use local mechanical ventilation or extraction in areas where dust could escape into the work environment. For bulk deliveries, closed pumping systems are recommended. For handling of individual bags, follow personal protection instructions below if no local exhaust ventilation is available.

Work areas should be cleaned regularly by wet sweeping or vacuuming. If generating dust cannot be avoided, see personal protection recommendations below.

PERSONAL PROTECTION***Skin***

Personnel involved in working with Hydrated Lime should wear loose comfortable protective clothing wear full length clothing (long sleeves and trousers, approved aprons, gloves, and impervious boots. The use of barrier creams to protect the skin is recommended. Wear gloves (AS 2161). Wash clothes regularly and keep separate from other clothes. It is advisable that persons working with Hydrated Lime should shower and change their clothes, including underwear, after exposure.

Eyes

Safety spectacles with side shields or safety goggles and dust masks complying with AS 1716 (class L) should be worn if dust is likely to be generated.

Respiratory

If dust is generated, wear a class P1 or P2 particulate respirator (AS/NZS 1715 & 1716). Use only respirators which bear the Australian Standards mark and are fitted correctly. Note that persons with facial hair will have difficulty in obtaining a satisfactory face seal. For alternatives, see *AS/NZS 1715: Selection and Use of Respiratory Protective Devices*.

Flammability

Not flammable. Does not support combustion of other materials.

SAFE HANDLING INFORMATION**STORAGE AND TRANSPORT**

Storage Temperature:	Room temperature
UN Class:	None allocated
Packaging Group:	None allocated
UN Number:	None allocated
EPG Number:	None allocated
Correct Shipping Name:	None allocated
Storage Advice:	Keep dry at all times and stored in a cool protected place away from strong oxidants or acids. Storage of opened bags will effectively reduce the quality of the product over time. Transported as non-dangerous goods.

Transportation is by rail, road or ship in bulk or bag form. Keep in moisture proof containers/silos to prevent hardening. Concrete or steel bins and silos or plastic lined paper sacks are the recommended forms of storage.

SPILLS AND DISPOSALS

Spills may be cleaned up by any dry method such as broom, shovel or vacuum device, with care taken to minimise evolution of dust into the environment. Dispose of in accordance with Federal, State and Local requirements.

Material may be neutralised with dilute hydrochloric acid or acetic acid (vinegar) before disposing.

FIRE/EXPLOSION HAZARD

Not normally explosive. Violent reactions will occur with maleic anhydride, nitroethane, nitromethane, nitroparaffins, nitropropane, phosphorous.

DECOMPOSITION PRODUCTS

In a fire, decompose into calcium oxide and carbon dioxide.

In case of small fire/explosion use:	Water
In case of major emergency:	Water
HAZCHEM CODE:	None allocated
Extinguishant:	Water, or as for other chemicals present
Danger of violent reaction or Explosion?:	No
Protective clothing:	As for other chemicals present
Appropriate measures:	Dilute
Evacuate?:	No

OTHER INFORMATION

As most bags are of a dense consistency it is important to observe the WorkSafe Guidelines for handling of heavy goods. Melcann Limited will not be responsible for any resultant injury caused by misuse, or actions performed in other than an approved manner set out in the relevant Codes of Practice or promulgated advice.

CONTACT POINT

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Authorised: _____
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