



Material Safety Data Sheet

PRODUCT NAME HYDRATED LIME (BLUE CIRCLE)

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Supplier Name BLUE CIRCLE SOUTHERN CEMENT LIMITED

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Synonym(s) LIME HYDRATE, SLAKED LIME, PLASTER LIME, CALCIUM HYDROXIDE, CALCIUM HYDRATE

Use(s) AGRICULTURAL LIMING, BINDER FOR MASONRY, NEUTRALISING AGENT, PH CONTROL, SOIL

STABILISATION, WATER TREATMENT

2. HAZARDS IDENTIFICATION

CLASSIFIED AS HAZARDOUS ACCORDING TO NOHSC CRITERIA

NOT CLASSIFIED AS A DANGEROUS GOOD BY THE CRITERIA OF THE ADG CODE

UN No.None AllocatedHazchem CodeNone AllocatedPkg GroupNone AllocatedDG ClassNone AllocatedSubsidiary Risk(s)None AllocatedEPGNone Allocated

3. COMPOSITION / INFORMATION ON INGREDIENTS

Ingredient	Formula	Conc.	CAS No.
CALCIUM HYDROXIDE	Ca-O-H2	94-98%	1305-62-0
MAGNESIUM OXIDE	Mg-O	<1%	1309-48-4
SILICA, CRYSTALLINE - QUARTZ	Si-O2	<1%	14808-60-7
CALCINED CLAY	Not Available	<5%	Not Available
CALCIUM CARBONATE	Ca-C-O3	<2%	1317-65-3
CALCIUM OXIDE	Ca-O	<1%	1305-78-8
MAGNESIUM HYDROXIDE	H2-Mg-O2	<1%	1309-42-8

4. FIRST AID MEASURES

Eye Hold eyelids apart and flush continuously with water. Continue until advised to stop by the Poisons Information

Centre, a doctor, or for at least 15 minutes. Keep patient calm.

Inhalation If over exposure occurs leave exposure area immediately. If irritation persists, seek medical attention.

Skin Remove contaminated clothing and gently flush affected areas with water. Seek medical attention if irritation

develops. Launder clothing before reuse.

Ingestion For advice, contact a Poisons Information Centre on 13 11 26 (Australia Wide) or a doctor. If swallowed, do not

induce vomiting.

Advice to Treat symptomatically

Doctor



5. FIRE FIGHTING MEASURES

Flammability Non flammable. No fire or explosion hazard exists.

Fire and Explosion

Non flammable. No fire or explosion hazard exists.

Extinguishing

Non flammable

Hazchem Code None

6. ACCIDENTAL RELEASE MEASURES

Spillage

If spilt (bulk), contact emergency services if appropriate. Wear dust-proof goggles, PVA/rubber gloves, a Class P1 (Particulate) 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.

7. STORAGE AND HANDLING

Storage

Store in cool, dry, well ventilated area, removed from moisture, oxidising agents (eg. hydrogen fluoride, phosphorus oxide), acids, ethanol, interhalogens (eg. chlorine trifluoride) and foodstuffs. Ensure packages are adequately labelled, protected from physical damage and sealed when not in use. Also store removed from maleic anhydride, nitroethane, nitromethane, nitroparaffins, nitropropene and phosphorus.

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 (eg. if container is damaged).

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Ventilation

Do not inhale dust/ powder. Use with adequate natural ventilation. Where a dust inhalation hazard exists, mechanical extraction ventilation is recommended. Maintain dust levels below the recommended exposure standard.

Exposure Standards

CALCIUM HYDROXIDE (1305-62-0)

ds ES-TWA: 5 mg/m3

WES-TWA: 5 mg/m3

MAGNESIUM OXIDE (1309-48-4) ES-TWA: 10 mg/m3 (fume)

ES-TWA#: 10 mg/m3 Inspirable dust

WES-TWA: 10 mg/m3

SILICA, CRYSTALLINE - QUARTZ (14808-60-7)

ES-TWA: 0.1 mg/m3 (Silica Quartz, respirable, NOHSC)

ES-TWA#: 0.1 mg/m3 (QLD); 0.15 mg/m3 (NSW)

WES-TWA: 0.2 mg/m3

CALCIUM CARBONATE (1317-65-3)

ES-TWA: 10 mg/m3 WES-TWA: 10 mg/m3 CALCIUM OXIDE (1305-78-8) ES-TWA: 2 mg/m3 (Peak level)

WES-TWA: 2 mg/m3

PPE

Wear dust-proof goggles and rubber or PVC gloves. At high dust levels, wear a Class P3 (Particulate) respirator or a Powered Air Purifying Respirator (PAPR) with Class P3 (Particulate) filter. Where an inhalation risk exists, wear a Class P1 (Particulate) Respirator. When using large quantities or where heavy contamination is likely, wear coveralls.



Printed: 25 May 2006





9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:FINE WHITE POWDERSolubility (water):1.6 g/LOdour:ODOURLESSSpecific Gravity:2.1 - 2.3

 Odour:
 ODOURLESS
 Specific Gravity:
 2.1 - 2.3

 pH:
 13
 % Volatiles:
 NOT AVAILABLE

Vapour Pressure: NOT AVAILABLE Flammability: NON FLAMMABLE **NOT AVAILABLE** Flash Point: Vapour Density: NOT RELEVANT **Boiling Point:** 580 C **Upper Explosion Limit: NOT RELEVANT Melting Point:** 580 C **Lower Explosion Limit: NOT RELEVANT NOT AVAILABLE Evaporation Rate: Autoignition Temperature: NOT AVAILABLE**

Exposure Standard: 5 mg/m3 Calcium hydroxide

10. STABILTY AND REACTIVITY

Reactivity Incompatible with oxidising agents (eg. phosphorus oxide, hydrogen fluoride), ethanol, interhalogens (eg. chlorine

trifluoride) and acids. Also incompatible with maleic anhydride, nitroethane, nitromethane, nitroparaffins,

nitropropene and phosphorus.

Decomposition May evolve toxic gases if heated to decomposition.

Products

11. TOXICOLOGICAL INFORMATION

Health Hazard Corrosive. Use safe work practices to avoid eye - skin contact and dust generation-inhalation. Once water is added, an inhalation hazard is not anticipated. Chronic respiratory effects are not anticipated with over exposure

at high levels due to the immediate irritant and/or corrosive effects. Crystalline silica is classified as carcinogenic to humans (IARC Group 1). Crystalline silica can cause silicosis (lung disease) with chronic over exposure, however due to low levels present and product application, adverse health effects associated with this ingredient are

greatly reduced.

Eye Corrosive. Severe irritant upon contact with powder/ dust. Over exposure may result in pain, redness, corneal

burns and ulceration with possible permanent damage.

Inhalation Corrosive. Over exposure to powder - dust (when mixing) may result in severe mucous membrane irritation of

nose and throat, coughing and bronchitis at high levels.

Skin Corrosive. Prolonged and repeated contact with powder or wetted form may result in skin rash and dermatitis.

Ingestion Corrosive. Ingestion may result in ulceration and burns to the mouth and throat, nausea, vomiting, abdominal pain

and diarrhoea.

Toxicity Data CALCIUM HYDROXIDE (1305-62-0)

LD50 (Ingestion): 7300 mg/kg (mouse) SILICA, CRYSTALLINE - QUARTZ (14808-60-7)

Carcinogenicity: Classified as a human carcinogen (IARC Group 1)

MAGNESIUM HYDROXIDE (1309-42-8) LD50 (Ingestion): 8500 mg/kg (rat, mouse)



12. ECOLOGICAL INFORMATION

Environment

The aquatic toxicity of calcium hydroxide is due to its alkalinity. It is neutralised to calcium carbonate by absorption of atmospheric carbon dioxide and is not degraded by oxidation. Calcium hydroxide does not bioaccumulate in the environment.

13. DISPOSAL CONSIDERATIONS

Waste Disposal

Reuse or recycle where possible. Alternatively, ensure product is covered with moist soil to prevent dust generation and dispose of to an approved landfill site. Contact the manufacturer for additional information.

Legislation

Dispose of in accordance with relevant local legislation.

14. TRANSPORT INFORMATION

Shipping Name None

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

15. REGULATORY INFORMATION

Poison Schedule 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).

AICS All chemicals listed on the Australian Inventory of Chemical Substances (AICS).

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.

ABBREVIATIONS:

mg/m3 - Milligrams per cubic metre

ppm - Parts Per Million

TWA/ES - Time Weighted Average or Exposure Standard.

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.

M - moles per litre, a unit of concentration.

IARC - International Agency for Research on Cancer.

PERSONAL PROTECTIVE EQUIPMENT GUIDELINES:

The recommendation for protective equipment contained within this Chem Alert report is provided as a guide only. Factors such as 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.

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 a Chem Alert report which would encompass all possible scenarios, it is anticipated that users will assess the risks and apply control methods where appropriate.

Report Status

This document has been compiled by RMT on behalf of the manufacturer of the product and serves as the manufacturer's Material Safety Data Sheet ('MSDS').

It is based on information concerning the product which has been provided to RMT by the manufacturer 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.

While RMT has taken all due care to include accurate and up-to-date information in this MSDS, 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 MSDS.

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Last Reviewed: 01 Jan 2006

Date Printed: 25 May 2006

End of Report



Printed: 25 May 2006