

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name	LIME PUTTY
Supplier Name	STONESMITH HERITAGE & BUILDING SERVICES PTY LTD
Address	29 Kinarra Crescent Chigwell TAS 7011
Telephone	0421 767 655
Emergency	National Poisons Centre 131 126
Email	info@stonesmith.com.au
Website	www.stonesmith.com.au
Synonym(s)	HYDRATED LIME SLURRY, LOW SILICA, METALURGICAL GRADE LIME PUTTY (PACKAGED VARIANCE – PREMIUM (BLUE BAG), PLASTERERS LIME PUTTY (RED BAG) & ENVIROMENTAL LIME (GREEN BAG)
Use(s)	Applications such as neutralising agent in water and sewage treatment, used in general industry for pH modification, building applications in solid plastering and mortar preparation.

2. HAZARDS IDENTIFICATION

This product is classified hazardous according to criteria of NOHSC.
Not classified as a dangerous good by the criteria of the ADG Code

RISK PHRASES

R36/37/38	Irritating to eyes, respiratory system and skin.
R40	Limited evidence of carcinogenic effect
R43	May cause sensitisation by skin contact

SAFETY PHRASES

S20/21	When using do not eat, drink or smoke
S22	Do not breathe dust (Lime Dust)
S24/25	Avoid contact with skin and eyes
S36/37	Wear suitable protective clothing and gloves
S38	In case of insufficient ventilation, wear suitable respiratory equipment
S39	Wear eye/face protection

UN NO	None Allocated	Hazchem Code	None Allocated	Pkg Group	None Allocated
DG Class	None Allocated	Subsidiary Risk(s)	None Allocated	EPG	None Allocated

3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient	Formula	Conc.	CAS No.
CALCIUM HYDROXIDE	Ca(OH) ₂	20 – 40%	1305-62-0
MAGNESIUM HYDROXIDE	Mg(OH) ₂	0.2 – 0.6%	1309-42-8
SILICON DIOXIDE	SiO ₂ Crystalline	0.1 – 0.2%	14808-60-70
ALUMINIUM OXIDE	Al ₂ O ₃	< 0.1 – 0.2%	1344-28-1
IRON (III) OXIDE	Fe ₂ O ₃	< 0.1 – 0.2%	1309-37-1

4. FIRST AID MEASURES

Eye	Flush thoroughly with flowing water for at least 15 minutes. Seek medical attention if symptoms persist.
Inhalation	If dried and airborne dust/powder presents leave the dusty area. If symptoms persist seek medical attention.
Skin	Quickly, but gently, wipe material off skin. Immediately remove all contaminated clothing and footwear. Wash skin thoroughly with copious amounts of water.
Ingestion	Rinse mouth and lips with water. Do not induce vomiting. Give limited water or milk to drink to dilute stomach contents. Seek urgent medical attention.
Advice to Doctor	Treat symptomatically. Contact Poisons Information Centre (131 126 Australia Wide)
First Aid Facilities	Eye wash station

Additional Information – Aggravated Medical Conditions

Inhalation	An inhalation hazard is not anticipated in a slurry state. If dried inhalation of dust/powder through prolonged, repeated exposure 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.
Skin	Irritating to the skin. Prolonged and repeated skin contact with Lime Putty can cause irritant dermatitis.

5. FIRE FIGHTING

Flammability	Non-flammable. If dried dust/powder does not cause dust explosions. Reacts violently with maleic anhydride, nitroethane, nitromethane, nitroparaffin, phosphorous and oxidants.
Fire & Explosion	Non-flammable. No fire or explosion exists.
Extinguishing	Non-flammable
Hazchem Code	None

6. ACCIDENTAL RELEASE MEASURES

Spillage	If spilt (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.
Waterways	Collect and place in sealable containers for disposal or re-use. If dried, avoid generating dust. Materials should be neutralised with dilute hydrochloric acid, e.g. 6M, before disposal.
Emergency Procedures	Follow safety requirements for personal protection under Section 8 Exposure Controls/Personal Protection.

7. HANDLING AND STORAGE

Storage	Bulk Lime Putty should be stored in a suitable tank with mechanical agitation. Bagged Lime Putty should be stored and protected to avoid puncturing and accidental release. Store away from strong oxidants or acids. Store in a cool, dry, well ventilated area, removed from all oxidising agents (e.g. phosphorous oxide), acids, ethanol and interhalogens (e.g. 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, nitroparaffin, nitropropane, phosphorous, polychlorinated phenols and potassium nitrate.
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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.
Property/Environmental	Refer to section 12 and 13.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ventilation	All work with Lime Putty should be carried out in such a way to minimise repeated skin contact. Where dust/powder could be generated whilst handling dried Lime Putty, use local mechanical ventilation or extraction in areas where dust could escape into the work environment.
Exposure Standards	CALCIUM HYDROXIDE (1305-62-0) ES-TWA: 5 mg3m3 WES-TWA: 5mg3m3 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: 0.1 mg/m3
PPE	Wear dust-proof goggles or PVC gloves. Where an inhalation risk exists, wear a class P2 respirator. If there is potential for prolonged and or excessive skin contact, wear coveralls. At high dust levels, wear a class P3 respirator. Or a Powered Air Purifying Respirator (PAPR) with a class P3 filter.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	White “milk like” Slurry	Solubility (water)	Not Applicable
Odour	No Odour	Specific Gravity	Not Relevant
pH	Approximately 12	% Volatiles	Not Available
Vapour Pressure	Not Available	Flammability	Non Flammable
Vapour Density	Not Available	Flash Point	Not Relevant
Boiling Point/Melting Point	Not Available	Upper Explosion Limit	Not Relevant
		Lower Explosion Limit	Not Relevant
Evaporation Rate	Not Available	Auto Ignition Temperature	Not Available
Bulk Density	1.2 – 1.25 tonnes/m3	Particle Size	Not Relevant

10. STABILITY AND REACTIVITY

Reactivity	Incompatible with oxidising agents (e.g. phosphorous oxide), ethanol, interhalogens (e.g. chlorine trifluoride) and acids. Also incompatible with maleic anhydride, nitroethane, nitromethane, nitroparaffin, nitropropane, phosphorous, polychlorinated phenols and potassium nitrate.
Decomposition Products	May evolve toxic gasses if heated to decomposition.

11. TOXICOLOGICAL INFORMATION

Health Hazard Summary	Corrosive. Use safe work practices to avoid eye and skin contact and if dried dust generation-inhalation. An inhalation hazard is not anticipated in slurry state. Chronic respiratory effects are not anticipated with over exposure at high levels due to the immediate irritant and/or corrosive effects.
Eye	Corrosive. Severe irritant upon contact. Over exposure may result in pain, redness, corneal burns and ulceration with possible permanent damage.
Inhalation	An inhalation hazard is not anticipated in a slurry state.
Skin	Irritating and drying to skin. May cause alkaline burns and irritant or allergic 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): 7300mg/kg (mouse) SILICA CRYSTALLINE – QUARTZ (1408-60-7) Carcinogenicity: Classified as a human carcinogen (IARC Group 1) MAGNESIUM HYDROXIDE (1309-43-8) LD50 (Ingestion): 8500 mg/kg (rat, mouse)

12. ECOLOGICAL INFORMATION

Environment	The aquatic toxicity of calcium hydroxide is due to alkalinity. It is neutralised to calcium carbonate by absorption of atmospheric carbon dioxide and is not degraded by oxidation. Calcium hydroxide does not bio accumulate in the environment.
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13. DISPOSAL CONSIDERATIONS

Waste Disposal	Reuse or recycle where possible. Collect in containers and dispose of as trade waste in accordance with local authority guidelines. Materials should be neutralised with dilute hydrochloric acid, e.g. 6M before disposal. Contact the manufacturer for additional information.
Legislation	Dispose of in accordance with relevant local legislation. Keep out of sewer and stormwater drains.

14. TRANSPORT INFORMATION

Not classified as a dangerous good by the criteria of the ADG code
Transportation is usually in bulk road tankers or PVC Bags

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

16. OTHER INFORMATION

Additional Information	IARC – GROUP 1 – PROVEN HUMAN CARCINOGEN: This product contains an ingredient for which there is sufficient evidence to have been classified by the International Agency for Research into Cancer as a human carcinogen. The use of products known to be human carcinogens should be strictly monitored and controlled. RESPIRATORS: In general the use of respirators should be limited and engineering controls employed to avoid exposure. If respiratory equipment must be used 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 air supply or air supplied respirators should be considered where prolonged or repeated use is necessary.
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PERSONAL PROTECTIVE EQUIPMENT GUIDELINES: The recommendation for protective equipment contained within this MSDS 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; the 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 MSDS report which would encompass all possible scenarios, it is anticipated that users will assess the risks and apply control methods where appropriate.

ABBREVIATIONS

MSDS	Material Safety Data Sheet
Mg/m ³	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 identify chemical compounds
IARC	International Agency for Research on Cancer
WES-TWA	Workplace Exposure Standard – Time Weighted Average
M	Moles per litre, a unit of concentration

Report Status

This document had been compiled by Lime Industries Pty Ltd the manufacturer of the product and serves as the manufacturer's material safety data sheet. While the information in this material safety data sheet has been prepared in good faith, Lime Industries Pty Ltd 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 0421 767 655

Web Site www.stonesmith.com.au

Advice Note

The information in this document is believed to be accurate. Please check the currency of this document. 0421 767 655 or www.stonesmith.com.au

Each user of any information, or any product referred to, in this safety material 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

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