

MATERIAL SAFETY DATA SHEET

Page 1 of 4
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STATEMENT OF HAZARDOUS NATURE

Hazardous according to the criteria of Worksafe Australia

COMPANY DETAILS

Company: Lime Industries Pty Ltd
Address: 43 Hector Street, Osborne Park WA 6017
Telephone Number: (08) 9446 8644
Emergency Telephone Number: 131 126 (National Poisons Information Centre)

IDENTIFICATION

Product Name: **CARBIDE LIME PUTTY**
Other Names: Blue Lime Putty
Manufacturer's Product Code - Carbide
UN Number: Not Applicable
Dangerous Goods Class & Subsidiary Risk: Not Applicable
Hazchem Code: Unclassified
Poisons Schedule Number:
Use: Used in various applications for pH adjustment

PHYSICAL DESCRIPTION/PROPERTIES

Product Description: Carbide Lime Putty is a grey slurry. This material is a co-product from acetylene generation. A limited amount of acetylene temporarily remains in solution in the carbide lime slurry at the time of discharge from the generation process. With subsequent agitation from handling and retention in vented vessels the acetylene evolves from solution. A combustible gas mixture could possibly form as a result of the acetylene released into the surrounding air. Acetylene is an extremely flammable gas, which forms explosive mixtures with air and oxidizing agents.

pH: 12

Percentage Solids: 40% +/-2

PHYSICAL DESCRIPTION/PROPERTIES

Boiling Point/Melting Point:	Water boils off as steam at 100 degrees Celsius. When all water is gone the resultant lime powder boils at 2850 degrees Celsius.
Vapour Pressure:	Not applicable
Flashpoint:	Not applicable
Flammability Limits:	Slurry is Non-combustible
Other properties:	Not explosive. Carbide lime putty has a slight garlic odour. Reacts violently with acid.

INGREDIENTS

Chemical Composition:

COMPONENTS	CAS No:	PROPORTION
Calcium Hydroxide:	1305-62-0	30-45%
Magnesium Hydroxide:	1309-42-8	0-5%
Silicon Dioxide:	14808-60-7	0-5%
Calcium Carbonate:	471-34-1	0-15%
Total Organic Carbon:	None	0-2%
Aluminium Oxide:	1344-28-1	0.1-1%
% by volume (wet):		
Methane:	74-85-1	0-0.2%
Acetylene:	74-82-8	0-0.2%
Ethene:	74-86-2	0-1%
Water	7732-18-5	to 100%

HEALTH HAZARD INFORMATION

Health Effects

Ingestion:	Carbide Lime Putty has a caustic reaction therefore will burn the mouth and throat if swallowed.
Eyes:	Corrosive and may cause severe burning of the eyes.
Skin:	Irritating.
Inhaled:	Due to the product form, inhalation hazard is low.

First Aid

Ingestion:

Do not induce vomiting. Wash mouth and lips with copious amounts of water, and give limited amounts of water or milk to drink. Seek urgent medical attention.

Skin:

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

Eyes:

Gently flush with running water, holding eyelid open for a 15 minute period. Seek medical attention if irritation persists.

Inhalation:

Not applicable.

Advice to Doctor:

Contact Poisons Information Centre on 13 11 26.

<i>PRECAUTIONS FOR USE</i>

Incompatible with:

Strong oxidizing agents (I.e. Chlorine, peroxides) and acid.

Ventilation:

Use a well ventilated area. As no vapour hazard exists, no special precautions are required.

Protective Equipment:

Splash proof goggles, work boots/clothes are recommended when handling Carbide Lime Putty. Some individuals with sensitive skin may require PVC/leather gloves if prolonged skin contact occurs.

SAFE HANDLING INFORMATION

Storage and Transport:

Carbide Lime Putty should be stored in a cool, protected place, away from strong oxidants or acids.

Storage in vented steel or concrete bins, tanks and silos. Accumulations of acetylene after its release from the slurry, or from unreacted carbide which continues to generate acetylene, can be ignited by any ignition source.

Post "No Smoking" or "No naked flames" signs near storage tanks. Carbide Lime Putty is not regulated for transport purposes. However, transport is usually in bulk road tankers.

Spills and Disposals:

Suitably attired personnel should clean up spillages with a broom or shovel. Materials should be recycled or neutralized with diluted hydrochloric acid (HCl) to a pH of 7-9.

Fire/Explosion Hazard:

Carbide Lime Putty is non-combustible.
Violent reaction with all forms of acids.

OTHER INFORMATION:

Post "No Smoking" signs near storage tanks.

CONTACT POINT:

LIME INDUSTRIES PTY LTD
(08) 9446 8644