

SAFETY DATA SHEET

Slag Lime Blend

Section 1: Identification of the Material and Supplier

Company Details

Cement Australia Pty Limited

ABN 75 104 053 474

18 Station Avenue
Darra, Queensland 4076Tel: 1300 CEMENT (1300 236 368)
Fax: 1800 CEMENT (1800 236 368)
Website: www.cementaustralia.com.au

Emergency Contact Number:

Contact Person: Technical Manager
Telephone: 1300 CEMENT (1300 236 368 - Business Hours) or
Poisons Information Centre 13 11 26

Manufacturing Plants

Gladstone: Landing Rd, Fisherman's Landing, Gladstone QLD 4680

Product

Name: Slag Lime Blend

Other Names: Mine Tailings Binder
Premium Ground Granulated Blast Furnace Slag Product for Mining Applications

Use: Supplementary cementitious material for concrete. Also, used in soil stabilisation and as a fine filler in asphalt and other products.

Section 2: Hazards Identification

Hazardous Substance. Non-dangerous Goods
Skin Corrosion/Irritation (Category 1c)
Sensitisation – Respiratory (Category 1)

Danger

Causes severe skin burns and eye damage

May cause allergy or asthma symptoms or breathing difficulties if inhaled

Hazard statement(s)

H315 Causes skin irritation.
H318 Causes serious eye damage.
H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Prevention statement(s)

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
P264 Wash thoroughly after handling.
P271 Use only outdoors or in a well-ventilated area.
P280 Wear protective gloves/protective clothing/eye protection/face protection.For more information call 1300 CEMENT (1300 236 368)
or visit www.cementaustralia.com.au*Mix it with the best.*

Response statement(s)

P302 + P352	IF ON SKIN: Wash thoroughly after handling. Wash clothes before re-use and separately from other clothing.
P304 + P340	IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing.
P321	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do so. Continue rinsing.
P332 + P313	If skin irritation occurs: Get medical advice/ attention.
P362	Take off contaminated clothing and wash before re-use.

Storage statement(s)

P403 + P233	Store in a well-ventilated place. Keep container tightly closed.
P405	Store locked up.

Disposal statement(s)

P501	Dispose of contents/container in accordance with relevant regulations.
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Section 3: Composition/Information on Ingredients

Ingredient	Proportion	CAS No.
FLY ASH containing:	<1-10%	68131-74-8
Crystalline Silica (Quartz) in ash	<1 up to 10%	14808-60-7
Total respirable silica	Below reporting limits	14808-60-7
GROUND BLAST FURNACE SLAG	75-90%	65996-69-2
LIME	10-20%	1305-78-8
GYPSUM	<5%	13397-24-5

Section 4: First Aid Measures

Swallowed:	Wash mouth and lips with copious amounts of water, and give limited amounts of milk or water to drink (150ml). Do not induce vomiting. Seek medical attention.
Eyes:	Hold eyes open and flush with copious amounts of water for at least 10 minutes. Seek medical attention.
Skin:	Immediately remove all contaminated clothing, including footwear. Wash material off skin, using plenty of water preferably under shower. If effects persist, seek medical attention.
Inhaled:	Remove to fresh air away from the dusty area. Seek medical attention.
First Aid Facilities:	Eye wash station.
Advice to Doctor:	Treat symptomatically as for poisoning with strong alkali. Contact Poisons Information Centre: Tel 13 11 26 (Australia wide)

Section 5: Fire Fighting Measures

Fire/Explosion Hazard:	Hydrated Lime is non-combustible
Hazchem Code:	None allocated
Flammability:	Not flammable
Extinguishing Media:	Water
Hazards from Combustion Products:	None
Danger of violent reaction or explosion:	Violent reactions with maleic anhydride, nitroethane, nitromethane, nitroparaffins, nitropropane and phosphorus.
Evacuate	No

Section 6: Accidental Release Measures

Spills: PPE must be worn to clean up spillages with broom, shovel, or vacuum equipment. Keep out of sewer, storm water drains, and natural waterways.

Section 7: Handling and Storage

Handling: When supplied in bags these need to be handled in accordance with manual handling Code of Practice.

Storage: Hydrated Lime should be stored in a cool protected place away from moisture, strong oxidants or acids and to minimize dust emissions. Storage in steel or concrete bins and silos, or plastic lined bags, is appropriate.

Section 8: Exposure Controls/Personal Protection

8.1 Control parameters

Chemical Entity	Proportion	CAS Number
Calcium Oxide	0-3%	1305-78-8
Crystalline Silica (Quartz)	<1 up to 10%	14808-60-7

Exposure standards

Engineering Controls: All work with Hydrated Lime should be carried out in a manner that minimises dust generation, exposure to dust and repeated skin contact. When handling Hydrated Lime, 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 instructions for personal protection. Work areas should be cleaned regularly by wet sweeping or vacuuming.

8.2 Personal Protection

Skin: If handling Hydrated Lime or products containing Quicklime, personnel should wear protective clothing and impervious boots, (Australian and New Zealand Standard AS/NZS 4501) and suitable impervious gloves such as PVC (AS 2161).

Remove clothing that has become contaminated with wet or dry product to avoid prolonged contact with the skin. If product gets into boots, remove socks and boots immediately and wash skin thoroughly. Wash work clothes regularly. To avoid contamination of face and lips and ingestion, wash hands before eating, or smoking.

Eyes: Avoid contact with eyes. Splash resistant Safety Glasses with side shields or safety goggles (AS/NZ 1336) should be worn or a face-shield.

Respiratory: In dusty environments use a respirator (filter mask) such as Class P1 or P2 (Australian and New Zealand Standards AS/NZS 1715 and AS/NZS 1716).

Section 9: Physical and Chemical Properties

Appearance:	White to off-white powder
Odour:	No odour
Boiling/Melting Point:	Decomposes to water and calcium oxide at 580°C
Vapour Pressure:	Not applicable
Specific Gravity:	2.4 – 2.8
Bulk Density:	450-800kg/m ³
Flash Point:	Not applicable
Flammability Limits:	Non-combustible
Solubility In Water:	Approx. 1.6g/L @20°C
pH:	Approximately 12
Particle Size:	9% < 100µm

Section 10: Stability and Reactivity

An alkaline material that reacts vigorously with acids, generating some heat. May absorb carbon dioxide from the atmosphere, forming calcium carbonate. Soluble in glycerol, aqueous solution of sucrose, and ammonium chloride. Incompatible with maleic anhydride, nitroparaffins, and phosphorus.

Section 11: Toxicological Information

Short Term (Acute) Exposure

- Swallowed:** Has a caustic reaction and is corrosive to the mouth and throat.
- Eyes:** Irritation and corrosive to the eyes. May cause chemical conjunctivitis and redness and watering of eyes and damage to cornea.
- Skin:** Irritating and drying to the skin. May cause alkali burns and irritant or allergic dermatitis. disorders may be aggravated by exposure to dust or contact with wet cement.
- Inhaled:** Irritating to the nose, throat and respiratory system causing coughing and sneezing.

Long Term (Chronic) Exposure

- Skin:** Prolonged exposure may cause irritant dermatitis.
- Inhaled:** Repeated exposure may cause severe mucous membrane irritation, bronchitis and pneumonia. Repeated and prolonged exposure to dust levels which exceed the OES for crystalline silica (see above) may occur. This can cause bronchitis, and silicosis (scarring of the lung). Long term overexposure to respirable crystalline silica dust may increase the risk of other irreversible and serious disorders including scleroderma (a disease affecting the connective tissue of the skin, joints, blood vessels and internal organs). NOHSC has not classified crystalline silica as a carcinogen. There is debate in the medical literature concerning whether there is any risk of lung cancer arising from long term high overexposure to respirable crystalline silica. Risk of lung cancer has not been identified from using this product. The International Agency for Research on Cancer (IARC) has classified Crystalline Silica inhaled in the form of quartz or Cristobalite from occupational sources, as carcinogenic to humans (Group 1).

Section 12: Ecological Information

- Ecotoxicity:** Because of the high pH of this product, it would be expected to produce significant acute ecotoxicity upon exposure to aquatic organisms and aquatic systems.
- Persistence and Degradability:** Product has no bioaccumulation or food chain toxicity potential.
- Mobility:** Soluble in water (as hydroxide) to form alkaline solution. Low mobility in most ground conditions.
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Section 13: Disposal Considerations

Material should be recycled, or neutralised with dilute hydrochloric acid to a pH of 6-9, before disposal in accordance with local authority guidelines. Keep out of sewer, storm water drains, and natural waterways.

Section 14: Transport Information

- UN Number:** None allocated
- Proper Shipping Name:** None allocated
- Class and Subsidiary Risk:** None allocated
- Packing Group:** None allocated
- Special precautions for user:** Avoid generating and breathing dust
- Hazchem Code:** None allocated
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Section 15: Regulatory Information

Quicklime is classified as non-Dangerous Goods.

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

Section 16: Other Information

For further information on this product contact: **Telephone:** 1300 CEMENT (1300 236 368) (Business Hours)
Facsimile: 1800 CEMENT (1800 236 368)

Previous Edition: 2014 – GHS Compliance edits made and supplementary compliance edits added.

Next Review Date for this MSDS: 31 December 2020.

Australian and New Zealand Standards:

AS 2161: Industrial Safety Gloves and Mittens (excluding electrical and medical gloves).

AS/NZ 1336: Recommended Practices for Occupational Eye Protection.

AS/NZS 1715: Selection, use and maintenance of respiratory protective devices.

AS/NZS 1716: Respiratory protective devices.

AS/NZS 4501: Occupational protective clothing.

Advice Note:

Cement Australia believes the information in this document to be accurate as at the date of preparation noted below, but, to the maximum extent permitted by law, Cement Australia accepts no responsibility for any loss or damage caused by any person acting or refraining from action because of this information.

The provision of this information should not be construed by anyone as a recommendation to use this product. No one should use any product in violation of any patent or other intellectual proprietary rights or in breach of any statute or regulation.

Users should rely on their own knowledge and inquiries and make their own determination as to the applicability of this information in relation to their purposes and specific circumstances. Each user should read this MSDS and consider the information in the context of how the product will be handled and used in the workplace and in conjunction with other substances or products.