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 4076 **Tel:** 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

2.1 Classification



DANGER

GHS CLASSIFICATION

Classified as Hazardous according to the Safe Work Australia guidelines for Globally Harmonised System of Classification and Labelling of Chemicals (GHS).

Not classified as Dangerous Goods according to the Australian Code for the Transport of Dangerous Goods by Road and Rail. (7th edition)

For more information call **1300 CEMENT** (1300 236 368) or visit **www.cementaustralia.com.au**





Hazard Class and Category

Skin Corrosion/ Irritation: Category 1C Sensitisation – Respiratory Category 1

2.2 GHS Label elements

Pictograms and Signal Words





DANGER

Hazard Statement(s)

H314 Causes severe skin burns and eye damage.

H318 Causes serious eye damage.

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled

Prevention Statement(s)

P101 If medical advice is needed, have product container or label at hand.

P103 Read label before use.

P103 Avoid breathing dust/fume/gas/mist/vapours/spray

P264 Wash any skin exposed thoroughly to the product thoroughly after handling. Do not touch eyes

until hands are thoroughly washed clean of material.

P280 Wear protective gloves in accordance with AS2161. Wear dust proof eye protection in accordance

with (AS/NZS1337.1).

P271 Use only outdoors or in a well-ventilated area.

Response Statement(s)

P305+P351+P338 IF IN EYES: Immediately call POISON CENTRE 131126 or Doctor. Rinse cautiously with

water for several minutes. Remove contact lenses, if present and easy to do. Continue

rinsing.

P302 + P352 IF ON SKIN: Wash with plenty of soap and water.

P362 Take off contaminated clothing and wash before re-use.

P332 + P313 If skin irritation occurs: Get medical advice/attention.

P304 + P340 + P305 IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing.

P337 + P313 If eye irritation persists: Get medical advice/attention.
P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

Storage Statement(s)

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

P405 Keep container tightly closed. Store locked up.

Disposal Statement(s)

P501 Dispose of unused contents or container in accordance with local authority guidelines.

Please dispose of packaging in appropriate general waste collection (not suitable for

recycling).



Section 3: Composition/Information on Ingredients

Chemical Entity	Proportion	CAS No.
Fly ash containing	<1-10%	68131-74-8
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

Inhalation: 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 Violent reactions with maleic anhydride, nitroethane, nitromethane,

explosion: 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

Occupational exposure limit values

No exposure standards have been established for this material. However, the available exposure limits for ingredients are listed below:

Calcium hydroxide TWA: 5 mg/m 3

Crystalline Silica (Quartz)TWA: 0.05 mg/m 3 (i.e. the average airborne concentration of a substance when calculated over a normal eight hour working day, for a five-day week.)

Biological Limit Values

No biological limits allocated.

Appropriate Engineering Controls

This substance is hazardous and should be used with a local exhaust ventilation system, drawing solid/dust away from workers' breathing zone. If the engineering controls are not sufficient to maintain concentrations of particulates below the exposure standards, suitable respiratory protection must be worn.

Respiratory Protection

If engineering controls are not effective in controlling airborne exposure, then an approved respirator with a replaceable dust/ particulate filter should be used. Refer to relevant regulations for further information concerning respiratory protective requirements.

Eye Protection

Safety glasses with full face shield should be used. Eye protection devices should conform to relevant regulations.

Hand Protection

Wear gloves of impervious material such as PVC and conforms to relevant regulations.

Body Protection

Suitable protective work wear, e.g. cotton overalls buttoned at neck and wrist is recommended. Chemical resistant apron is recommended where large quantities are handled.

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 applicableSpecific Gravity:2.4 - 2.8Bulk Density:450-800kg/m³Flash 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

Acute Toxicity – Oral For calcium hydroxide: LD50 (rat): 7,340 mg/kg

Ingestion Ingestion of this product may irritate the gastric tract causing nausea and

vomiting.

Inhalation May cause respiratory irritation. Inhalation of product dust can cause irritation

of the nose, throat and respiratory system.

Repeated exposure to respirable crystalline silica dust may lead to silicosis, or other serious delayed lung injury. The onset of silicosis is usually slow and lung damage may occur even when no symptoms or signs of ill-health have occurred. Silicosis can develop to a more serious degree even after exposure has ceased and may also lead to other diseases including heart disease and scleroderma. Exposure by inhalation may aggravate pre-existing upper respiratory and lung disorders such as bronchitis, emphysema, and asthma.

Chronic exposure to this material may aggravate existing respiratory disorders and lung disorders such as bronchitis, emphysema, and asthma. Onset and progression are related to dust concentrations and duration of exposure.

Skin Causes skin irritation. Skin contact will cause redness, itching and swelling.

Repeated exposure may cause skin dryness and cracking and may lead to

dermatitis.

Eye Causes serious eye damage. On eye contact this product will cause tearing,

stinging, blurred vision, and redness.

For calcium hydroxide - Eye Irritation (rabbit): Severe (Standard Draize Test,

10 mg)

Germ cell mutagenicity Not considered to be a mutagenic hazard.

Carcinogenicity May cause cancer. Classified as a Known or presumed human carcinogen.

May cause cancer by inhalation. Respirable crystalline silica is classified by International Agency for Research on Cancer (IARC) as carcinogenic to

humans by inhalation (Group 1)

Reproductive Toxicity Not considered to be toxic to reproduction.

STOT-single exposure Not expected to cause toxicity to a specific target organ.

STOT-repeated exposure May cause damage to organs through prolonged or repeated exposure by

inhalation.

Aspiration Hazard Not expected to be an aspiration hazard.

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.



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:

Proper Shipping Name:

Class and Subsidiary Risk:

None allocated

None allocated

None allocated

None allocated

Special precautions for user: Avoid generating and breathing dust

Hazchem Code: None allocated

Section 15: Regulatory Information

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

Section 16: Other Information

For further information on this Telephone: 1300 CEMENT (1300 236 368) (Business Hours)

product contact: Facsimile: 1800 CEMENT (1800 236 368)

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

2020 – Format updates2022/2023 – Format updates

Next Review Date for this SDS: 31 December 2026.

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, 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 particular 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.

[SDS Ends]

