

SAFETY DATA SHEET

GRENCEM[®] 4

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

Brisbane: 1 Savage Street, Pinkenba, QLD, 4008

Product

Name: GreenCem[®] 4**Other Names:** GreenCem[®]**Use:** GreenCem[®] 4 is concrete admixture compliant to AS 1478.2—2005, Chemical admixtures for concrete, mortar and grout.

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).For more information call **1300 CEMENT** (1300 236 368)
or visit www.cementaustralia.com.au*Mix it with the best.*

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

Hazard Class and Category

Serious Eye Damage/Eye Irritation: **Category 1**

2.2 GHS Label elements

Pictograms and Signal Words



DANGER

Hazard Statement(s)

H318 Causes serious eye damage.

Prevention Statement(s)

- P101** If medical advice is needed, have product container or label at hand.
- P102** Keep out of reach of children.
- P103** Read label before use.
- P261** Avoid breathing dust/ Dry cement can become easily airborne. Wet surface before cutting to reduce dust emissions/
- P264** Wash any skin exposed to the product thoroughly after handling. Do not touch eyes until hands are thoroughly washed clean of material.
- P271** Use only outdoors or in a well-ventilated area.
- P280** Wear protective gloves in accordance with AS2161. Wear dust proof eye protection in accordance with (AS/NZS1337.1).

Response Statement(s)

- P310** Immediately call POISON CENTRE 131126 or Doctor if you feel unwell.
- P321** Specific treatment is advised - see first aid instructions.
- P302 + P352** IF ON SKIN: Wash with plenty of soap and water.
- P304 + P340 + P305** IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing.
- P30 + P330 + P331** IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Immediately seek medical attention showing the SDS and label.
- 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

Storage Statement(s)

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

Disposal Statement(s)

P501 Dispose of unused contents or container as normal general waste or in accordance with jurisdictional regulations.

2.3 Other hazards

No other physicochemical, human health or environmental hazards.

Section 3: Composition/Information on Ingredients

GreenCem® 4 consists of a crystalline mass manufactured from substances mined from the earth's crust.

The product contains: GreenCem® 4 Powdered Admixture.

The following substances shall be indicated according to legislation:

Chemical Entity	Proportion	CAS Number	EC Number
Calcium Compounds	<10 %	-	-
Other Non-Hazardous Materials	>90 %	-	-

Section 4: First Aid Measures

4.1 Description of necessary first aid measures

Eyes:	If in eyes, hold eyelids apart and flush continuously with running water. Continue flushing until advised to stop by a Poisons Information Centre, a doctor, or for at least 15 minutes.
Inhalation:	Remove affected person to fresh air, away from dusty area. If inhaled, remove from contaminated area. Apply artificial respiration if not breathing.
Skin:	If skin or hair contact occurs, remove contaminated clothing and flush skin and hair with running water. Wash material off the skin thoroughly with water. Continue flushing with water until advised to stop by a Poisons Information Centre or a doctor. Shower if necessary.
Ingestion/Swallowed:	For advice, contact a Poisons Information Centre on 13 11 26 (Australia Wide) or a doctor (at once). If swallowed, do not induce vomiting. Rinse mouth with water provided person is conscious. Do not induce vomiting, get medical attention showing the Safety Data Sheet and the hazard label.
First Aid Facilities:	Eye wash station. Washing facilities with running water/shower.
Advice to Doctor:	Treat symptomatically. Material can cause serious eye damage.

4.2 Symptoms caused by exposure

Can cause eye irritation

Can cause serious eye damage

4.3 Medical attention and special treatment

In case of accident (such as eye exposure) or feeling unwell, seek medical advice immediately (show directions for use or safety data sheet if possible).

Treatment: See paragraph 4.1

Section 5: Fire Fighting Measures

Fire/Explosion Hazard:	None	Special Protective Precautions and equipment for fire fighters:	Use suitable Self Contained Breathing Apparatus (SCBA) apparatus. Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Move undamaged containers from immediate hazard area if it can be done safely.
Hazchem Code:	None allocated		
Flammability:	Not flammable		
Extinguishing Media:	Water, Carbon Dioxide (Use an extinguishing agent suitable for the surrounding fire).		
Hazards from Combustion Products:	Do not inhale explosion and combustion gases. Burning produces heavy smoke.		
Advice for fire fighters:	Evacuate area and contact emergency services. Toxic gases may be evolved in a fire situation. Use water fog to cool intact containers and nearby storage areas.		

Section 6: Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedure

Recommended protective clothing when handling product includes gloves (AS2161), boots, long sleeves/pants, eye protection i.e., goggles (AS/NZS1337.1), suitable respirator (AS/NZS1715, 1716).

Remove persons to safety. Contact emergency services where appropriate.

6.2 Environmental precautions

Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains. Limit leakages with earth or sand.

6.3 Methods and materials for containment and cleaning up

Take up mechanically and dispose of according to local/state/federal regulations
 Suitable material for taking up: absorbing material, organic, sand
 Retain contaminated washing water and material and dispose it.

Section 7: Handling and Storage

7.1 Precautions for safe handling

Before use, carefully read the product label. Avoid eye or skin contact and inhalation.

Avoid contact with skin and eyes, inhalation of vapours and mists.

Contaminated clothing should be changed before entering eating areas.

Do not eat or drink while working.

Store in a cool, dry, well ventilated area, removed from incompatible substances and foodstuffs. Ensure containers are adequately labelled and tightly closed when not in use. Store under inert gas.

See also section 8 for recommended protective equipment.

7.2 Conditions for safe storage, including any incompatibilities

Store in a cool, dry, well ventilated area, removed from incompatible substances and foodstuffs.

Ensure containers are adequately labelled and tightly closed when not in use.

Incompatible materials: Incompatible with oxidising agents (e.g. hypochlorites) and acids (e.g. nitric acid).

Section 8: Exposure Controls/Personal Protection

8.1 Exposure control measures

Exposure standards

Minimal exposure limit values have been entered for this product.

Biological limits

No biological limit values have been entered for this product.

8.2 Engineering controls

Avoid inhalation. Use in well-ventilated areas. Where an inhalation risk exists, mechanical extraction ventilation is recommended. Maintain dust levels below the recommended exposure standard.

8.3 Individual protection measures

- Eyes / Face:** Use close fitting dust-proof safety goggles only; do not substitute for safety glasses/lenses or face shields.
- Body/Skin:** Use clothing that provides comprehensive protection to the skin, e.g. cotton, rubber, coveralls, PVC or Viton.
- Hands:** Wear PVC, rubber gloves or other suitable safety gloves that comply to ANZS 2161.10.
- Respiratory:** Respiratory protection must be used where exposure levels exceed workplace exposure limits. Refer to AS/NZS 1715-1716 for information on selection and use of appropriate respiratory protection equipment. Where an inhalation risk exists, wear a Class P1 (Particulate) respirator.

Section 9: Physical and Chemical Properties

Appearance:	A powdered solid
Odour:	Slight odour
Boiling/Melting Point:	Melting point >800°C
Vapour Pressure:	Not applicable
Specific Gravity:	2.6
Flash Point:	Not applicable
Flammability Limits:	Not applicable
Solubility in Water:	Soluble
Particle Size:	Up to 50% of the fresh dry material may be respirable (below 10 microns)

Section 10: Stability and Reactivity

Chemical Stability:	Stable under recommended conditions of storage.
Conditions to Avoid:	Avoid heat, sparks, open flames and other ignition sources.
Incompatible Materials:	Incompatible with oxidising agents (e.g. hypochlorites) and acids (e.g. nitric acid).
Hazardous Decomposition Products:	May evolve oxides when heated to decomposition.
Hazardous Reactions:	None. Not expected to polymerise.

Section 11: Toxicological Information

GreenCem® 4 is a stable substance, compatible with most other building materials, and will not decompose into hazardous by-products.

Acute toxicity	Data does not suggest the classification for Acute toxicity
Skin	Contact may result in irritation, redness and rash.
Eye	Causes serious eye damage. Contact may result in irritation, lacrimation, pain, redness and possible serious eye damage.
Sensitisation	Not classified as causing skin or respiratory sensitisation.
Mutagenicity	Not classified as a Mutagen
Carcinogenicity	Not classified as a Carcinogen
Reproductive	Not classified as a reproductive toxicant
STOT – single exposure	Over exposure may result in mucous membrane irritation of the respiratory tract, coughing, nausea, dizziness and headache.
STOT – repeated exposure	Not classified as causing organ damage from repeated exposure.
Aspiration	Not classified as causing aspiration.

11.1 Early onset symptoms related to exposure

None – no data available suggesting the case

11.2 Delayed health effects from exposure

None- no data available suggesting the case

Toxicological Information on main components of the mixture:

Components	Toxicity
	Acute Toxicity

Section 12: Ecological Information

Ecotoxicity:	a) LD50 (dermal) > 2000 mg/kg (rat) b) Bacteria toxicity: NOEC Bacteria = 1000 mg/L 3h c) Aquatic acute toxicity: LC50 Fish >= 1000 mg/L, 96h static d) Aquatic acute toxicity: EC50 Bacteria >1000 mg/L 3h
Bio accumulative potential:	This product is not expected to bioaccumulate.
Persistence and Degradability:	Product is persistent and would have a low degradability.
Mobility:	A low mobility would be expected in a landfill situation.

Section 13: Disposal Considerations

Reclaim excess material where possible, with extreme care taken to avoid dust generation. Use a vacuum to collect where possible, and wear PPE as indicated in section 8.3.

Keep material out of storm water and sewer drains.

GreenCem® 4 can be treated as a common waste for disposal to an approved landfill site, in accordance with local authority guidelines. Alternatively, ensure product is covered with moist soil to prevent dust generation.

Ensure product is covered with moist soil to prevent dust generation and dispose of to an approved Council landfill. Contact the manufacturer/supplier for additional information (if required). Dispose of in accordance with relevant local legislation.

Section 14: Transport Information

Not classified as dangerous in the meaning of transport regulations. May be transported by Ship, Rail, Air and Road.

UN Number:	None allocated
Proper Shipping Name:	None allocated
Class and Subsidiary Risk:	None allocated
Packing Group:	None allocated
Special precautions for user:	None allocated
Hazchem Code:	None allocated
Environmental hazards:	Not a Marine Pollutant.

Section 15: Regulatory Information

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).

This Safety Data Sheet has been prepared according to the Australian Work Health and Safety (WHS) act and the Code of Practice on preparation of safety data sheets for Hazardous Chemicals.

All components are 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 and edits made:

2022 – SDS generated in accordance with GH7

2023 – Format update

Next Review Date for this MSDS: 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]