

## SAFETY DATA SHEET

GRENCEM2<sup>®</sup>

## 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](http://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

**Location**  
**(e.g. Gladstone):**      Landing Rd, Gladstone QLD 4680,  
PO Box 802, Mt Ommaney Qld 4074  
Australia

## Product

**Name:**      **Grencem 2**

**Other Names:**      Grencem

**Use:**      GreenCem 2 is concrete admixture compliant to AS 1478.2—2005, *Chemical admixtures for concrete, mortar and grout.*

## Section 2: Hazards Identification

## 2.1 Classification

THIS PRODUCT IS NOT CLASSIFIED AS A HAZARDOUS SUBSTANCE ACCORDING TO SAFE WORK AUSTRALIA CRITERIA. NON-DANGEROUS GOODS

## GHS CLASSIFICATION

**Hazard Class and Category**  
NIL

## 2.2 GHS Label elements

## Hazard Statements

The product is not classified as hazardous according to Australia WHS regulation

For more information call **1300 CEMENT** (1300 236 368)  
or visit [www.cementaustralia.com.au](http://www.cementaustralia.com.au)

*Mix it with the best.*



### Prevention Statement(s)

<b>P101</b>	If medical advice is needed, have product container or label at hand.
<b>P102</b>	Keep out of reach of children.
<b>P103</b>	Read label before use.
<b>P261</b>	Avoid breathing dust/ Dry cement can become easily airborne. Wet surface before cutting to reduce dust emissions/
<b>P264</b>	Wash any skin exposed to the product thoroughly after handling. Do not touch eyes until hands are thoroughly washed clean of material.
<b>P271</b>	Use only outdoors or in a well-ventilated area.
<b>P280</b>	Wear protective gloves in accordance with AS2161. Nitrile gloves of 8mil thickness. Wear dust proof eye protection in accordance with (AS/NZS1337.1).

### Response Statement(s)

<b>P305+P351+P338</b>	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.
<b>P302 + P352</b>	IF ON SKIN: Wash with plenty of soap and water.
<b>P332 + P313</b>	If skin irritation occurs: Get medical advice/attention.
<b>P304 + P340 + P305</b>	IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing.
<b>P337 + P313</b>	If eye irritation persists: Get medical advice/attention.
<b>P310</b>	Immediately call POISON CENTRE 131126 or Doctor if you feel unwell.
<b>P362</b>	Take off contaminated clothing and wash before re-use.

### Storage Statement(s)

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

### Disposal Statement(s)

<b>P501</b>	Dispose of unused contents or container as normal general waste or in accordance with jurisdictional regulations.
-------------	---

## 2.3 Other hazards

No data available.

---

## Section 3: Composition/Information on Ingredients

Greencem consists of a crystalline mass manufactured from substances mined from the earth's crust.

The product contains: Greencem Powdered Admixture.

The following substances shall be indicated according to legislation:

<b>Chemical Entity</b>	<b>Proportion</b>	<b>CAS Number</b>	<b>EC Number</b>
Limestone	30 - 60 %	471-34-1	207-439-9
Other Non-Hazardous Materials	30 - 60%	-	-

---

## Section 4: First Aid Measures

### 4.1 Description of necessary first aid measures

#### First Aid

<b>Ingestion/Swallowed:</b>	Rinse mouth and lips with water. Do not induce vomiting, get medical attention showing the SDS and the hazard label. If feeling unwell, seek medical attention. For advice, contact a Poisons Information Centre on 13 11 26 or a doctor.
<b>Eyes:</b>	Flush thoroughly with flowing water. If symptoms such as irritation or redness persist, seek medical attention.
<b>Skin:</b>	Wash material off the skin thoroughly with water. Use a mild soap if available.
<b>Inhalation:</b>	Remove to fresh air, away from dusty area. If symptoms persist, seek medical attention.
<b>First Aid Facilities:</b>	Eye wash station. Washing facilities with running water/shower.
<b>Advice to Doctor:</b>	Treat symptomatically.

### 4.2 Symptoms caused by exposure

None

### 4.3 Medical attention and special treatment

In the case of feeling unwell, seek medical advice immediately (show directions for use or safety data sheet if possible). Treat symptomatically.

---

## Section 5: Fire Fighting Measures

<b>Fire/Explosion Hazard:</b>	None	<b>Special Protective Precautions and equipment for fire fighters:</b>	Use suitable breathing 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.
<b>Hazchem Code:</b>	None allocated		
<b>Flammability:</b>	Not flammable		
<b>Extinguishing Media:</b>	Water, Carbon Dioxide (CO <sub>2</sub> )		
<b>Hazards from Combustion Products:</b>	Do not inhale explosion and combustion gases. Burning produces heavy smoke		

---

## 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.

### 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

Scoop into containers and seal for disposal.

Retain contaminated washing water and dispose it.

## Section 7: Handling and Storage

### 7.1 Precautions for safe handling

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

Do not eat or drink while working.

See also section 8 for recommended protective equipment.

### 7.2 Conditions for safe storage, including any incompatibilities

Keep away from food, drink and feed.

Incompatible materials: None in particular.

Instructions as regards storage premises: Adequately ventilated premises.

## Section 8: Exposure Controls/Personal Protection

### 8.1 Exposure control measures

#### Exposure standards

Ingredient	Reference	TWA		STEL	
		ppm	mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>
Calcium Carbonate	SWA (AUS)	--	10	--	--

#### Exposure Limits for Individual Components

(T= Total Respirable, R=Respirable fraction, I=Inhalable-aerosol)

Component	OSHA PEL	ACGIH TLV	NIOSH REL
Calcium Carbonate	5 mg/m <sup>3</sup> (R)	Insufficient data	5 mg/m <sup>3</sup> (R)
	10 mg/m <sup>3</sup> (T)		10 mg/m <sup>3</sup> (T)

#### Biological limits

Derived No Effect Level. (DNEL)

Component	CAS-No.	Worker Industry	Worker Professional	Consumer	Exposure Route	Exposure Frequency Remark
Calcium Carbonate	471-34-1	6.36 mg/m <sup>3</sup>		1.06 mg/m <sup>3</sup>	Human Inhalation	Long Term, local effects
				6.1 mg/m <sup>3</sup>	Human Oral	Long Term, systemic effects
				6.1 mg/m <sup>3</sup>	Human Oral	Short Term, systemic effects

## 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

### PPE

- Eyes / Face:** Use close fitting dust-proof safety goggles only. Operate according to good working practices.
- Body/Skin:** Use clothing that provides comprehensive protection to the skin, e.g. cotton, rubber, PVC or viton.
- Hands:** Suitable materials for safety gloves; AS/NZS 2161.10:  
Polychloroprene - CR: thickness  $\geq 0,5\text{mm}$ ; breakthrough time  $\geq 480\text{min}$ .  
Nitrile rubber - NBR: thickness  $\geq 0,35\text{mm}$ ; breakthrough time  $\geq 480\text{min}$ .  
Butyl rubber - IIR: thickness  $\geq 0,5\text{mm}$ ; breakthrough time  $\geq 480\text{min}$ .  
Fluorinated rubber - FKM: thickness  $\geq 0,4\text{mm}$ ; breakthrough time  $\geq 480\text{min}$ .
- 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.

---

## Section 9: Physical and Chemical Properties

<b>Appearance:</b>	A blue, powdered solid
<b>Odour:</b>	No distinctive odour
<b>Boiling/Melting Point:</b>	Melting point $>825^{\circ}\text{C}$
<b>Vapour Pressure:</b>	Not applicable
<b>Specific Gravity:</b>	2.5
<b>Flash Point:</b>	Not applicable
<b>Flammability Limits:</b>	Not applicable
<b>Solubility in Water:</b>	Not applicable
<b>Particle Size:</b>	Up to 50% of the fresh dry material may be respirable (below 10 microns)

---

## Section 10: Stability and Reactivity

<b>Chemical Stability:</b>	Chemically stable
<b>Conditions to Avoid:</b>	Chemically Stable
<b>Incompatible Materials:</b>	None
<b>Hazardous Decomposition Products:</b>	None
<b>Hazardous Reactions:</b>	None

---

## Section 11: Toxicological Information

Greencem 2 is a stable substance, compatible with most other building materials, and will not decompose into hazardous by-products.

There is no direct toxicological data on this product. Health effects information is based on reported effects in use from overseas and Australian reports on mixtures of Portland Cements and sand.

### 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
Calcium Carbonate	Acute toxicity: LD50 Oral Rat > 2000 mg/kg LC50 Inhalation Rat > 3 mg/l LD50 Skin Rat > 2000 mg/kg (4h) LD50 Oral Rat = 6450 mg/kg  Reproductive Toxicity: NOAEL Rat = 1000 mg/kg

## Section 12: Ecological Information

### 12.1 Ecotoxicity

Adopt good working practices, so that the product is not released into the environment. Eco-Toxicological Information:

#### List of components with eco-toxicological properties

Component	CAS	Eco-Toxicological Information
Calcium Carbonate	471-34-1	c) Bacteria toxicity : NOEC Bacteria = 1000 mg/L 3h d) Terrestrial toxicity : LC50 > 1000 mg/kg d) Terrestrial toxicity : NOEC = 1000 mg/kg - 28d e) Plant toxicity : NOEC = 1000 mg/kg - 21d

### 12.2 Bio accumulative potential

This product is not expected to bioaccumulate.

### 12.3 Persistence and Degradability

Product is persistent and would have a low degradability.

### 12.4 Mobility

A low mobility would be expected in a landfill situation.

## Section 13: Disposal Considerations

Reclaim excess material where possible. Greencem 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.

Keep material out of storm water and sewer drains.



## 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]