

SAFETY DATA SHEET

GRENCEM3[®]

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

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

Product

Name: Grencem 3**Other Names:** Grencem**Use:** GreenCem 3 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. Nitrile gloves of 8mil thickness. 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.

P303+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 rinsing.

P280 Wear protective gloves in accordance with AS2161. Nitrile gloves of 8mil thickness. Wear dust proof eye protection in accordance with (AS/NZS1337.1).

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 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 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:

Chemical Entity	Proportion	CAS Number	EC Number
Limestone (Calcium Carbonate)	30 - 60 %	471-34-1	207-439-9
Formic Acid Salts	3 - 35%	544-17-2	208-863-7
Other Non-Hazardous Materials	30 – 60%	-	-

Section 4: First Aid Measures

4.1 Description of necessary first aid measures

First Aid

Ingestion/Swallowed:	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.
Eyes:	After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately. Protect uninjured eye.
Skin:	Immediately take off all contaminated clothing. Areas of the body that have - or are only even suspected of having - come into contact with the product must be rinsed immediately with plenty of running water and possibly with soap. Wash thoroughly the body (shower or bath). Remove contaminated clothing immediately and dispose of safely.
Inhalation:	Remove to fresh air, away from dusty area. If symptoms persist, seek medical attention.
Skin:	Remove heavily contaminated clothing immediately. Wash material off the skin thoroughly with water. Use a mild soap if available. Shower if necessary. Seek medical attention for persistent irritation or burning of the skin.
Advice to Doctor:	Eye wash station. Washing facilities with running water/shower.
First Aid Facilities:	Treat symptomatically. Treat symptomatically. Ensure eyes are flushed clear of powder, and avoid touching patient's or own eyes after contact with contaminated clothing or skin

4.2 Symptoms caused by exposure

Eye Damage
Eye Irritation

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 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.
Hazchem Code:	None allocated		
Flammability:	Not flammable		
Extinguishing Media:	None in particular, Water, Carbon Dioxide (CO ₂)		
Hazards from Combustion Products:	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
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

Avoid contact with skin and eyes, inhalation of vapours and mists.
Don't use empty container before they have been cleaned.
Before making transfer operations, assure that there aren't any incompatible material residuals in the containers.
Contaminated clothing should be changed before entering eating areas. 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

Note: exposure of formate salt would occur as a formic acid, as it would become aqueous

Ingredient	Reference	HCIS		STEL	
		ppm	mg/m ³	ppm	mg/m ³
Calcium Carbonate	SWA-HCIS (AUS)	--	10	--	--
Formic Acid	SWA-HCIS (AUS)	5	9.4	10	19

Biological limits

Derived No Effect Level. (DNEL)

Component	CAS-No.	Worker Industry	Consumer	Exposure Route	Exposure Frequency Remark
Calcium Carbonate	471-34-1	6.36 mg/m ³	1.06 mg/m ³	Human Inhalation	Long Term, local effects
			6.1 mg/m ³	Human Oral	Long Term, systemic effects
			6.1 mg/m ³	Human Oral	Short Term, systemic effects
Formic Acid Salt	544-17-2	337 mg/m ³	23.9 mg/m ³	Human Oral	Long Term, systemic effects
			83.2 mg/m ³	Human Inhalation	Long Term, systemic effects
			83.2 mg/m ³	Human Inhalation	Short Term, systemic effects
			2390 mg/kg	Human Dermal	Short Term, systemic effects
			2390 mg/kg	Human Dermal	Long Term, systemic effects
			8.3 mg/kg	Human Dermal	Short Term, local effects
			8.3 mg/kg	Human Dermal	Long Term, local 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

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, 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

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

Section 10: Stability and Reactivity

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

Section 11: Toxicological Information

Greencem 3 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	Not thought to cause direct irritation or corrosion, but may cause inflammation or accentuate pre-existing skin conditions for some persons. Contact with open cuts

or irritated skin may result in systemic injury or harmful effects.

Eye	Causes serious eye damage, with a risk of blindness
Sensitisation	Data does not suggest classification as a respiratory or skin sensitiser. May cause irritation for those with pre-existing dermatitis or irritated skin.
Mutagenicity	Not classified as a Mutagen
Carcinogenicity	Not classified as a Carcinogen
Reproductive	Not classified as a reproductive toxicant
STOT – single exposure	Not classified for specific target organ toxicity (single exposure)
STOT – repeated exposure	Not classified for specific target organ toxicity (repeated exposure)
Aspiration	This product is a stable solid and aspiration hazards are not expected to occur

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
Formic Acid Salts	Acute Toxicity: LD50 Oral Rat = 2650 mg/kg LD50 Skin > 2000 mg/kg LC50 Inhalation Rat = 0.64 mg/l (4h) LD50 Oral Rat = 2650 mg/kg Reproductive Toxicity: NOAEL Oral Rat = 956 mg/kg

Section 12: Ecological Information

12.1 Ecotoxicity

Adopt good working practices, so that the product is not released into the environment.

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
Formic Acid Salts	544-17-2	a) Aquatic acute toxicity : LC50 Fish > 1000 mg/L 96h a) Aquatic acute toxicity : EC50 Bacteria > 1000 mg/L 3h a) Aquatic acute toxicity : EC50 Daphnia > 1000 mg/L 48h c) Bacteria toxicity : EC50 Bacteria > 22.1 mg/L b) Aquatic chronic toxicity : NOEC Daphnia > 100 mg/L - 21d b) Aquatic chronic toxicity : NOEC Algae > 500 mg/L a) Aquatic acute toxicity : EC50 Algae > 500 mg/L 72h a) Aquatic acute toxicity : LC50 Fish Brachydanio rerio >= 1000 mg/L 96h IUCLID

12.2 Bio-accumulative potential

This product is not expected to bio-accumulate.

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

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.

Measures should be taken to prevent dust generation during disposal, and exposure and personal precautions should be observed (see above).

This material and its container must be disposed of in a safe way. Care should be taken when handling untreated empty containers.

Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Empty containers or liners may retain some product residues. Do not re-use empty containers unless thoroughly cleaned.

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

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 according to GHS

Next Review Date for this SDS: 31 December 2026.

IARC International Agency for Research on Cancer

NOHSC National Occupational Health and Safety Commission

ECDIN - Environmental Chemicals Data and Information Network - Joint Research Centre, Commission of the European Communities

SAX's DANGEROUS PROPERTIES OF INDUSTRIAL MATERIALS - Eight Edition - Van Nostrand Reinold

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]