

## SAFETY DATA SHEET

# Concrete Mix

## 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](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

**Geelong:** 292 Thompson Rd, Geelong North VIC 3215  
**Brisbane:** 77 Pamela St, Pinkenba QLD 4008  
**Auburn:** Highgate St, Auburn NSW 2144  
**Townsville:** 12 Jensen St, Stuart QLD 4811

### Product

**Name:** Concrete Mix**Other Names:** PROSTRENGTH Extra Strength Concrete Mix  
Extra Strength PRO-50 Concrete Mix**Use:** Concrete Mix is used to form concrete. It is used in soil stabilisation, building construction, and civil engineering projects.

Concrete mixes can contain various proportions of pozzolans depending on the use case. This SDS covers all blends and incorporates a GHS Hazard identification for the blend with the highest proportion of materials requiring the highest hazard rating. This SDS reflects the handling of Cement Powder in bulk or bagged form, with additional consideration for the material in its wet form. Adding water to Cement changes the properties and the SDS for the listed use cases above should be referenced.

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.*



## 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)

#### Hazard Class and Category

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

Skin Corrosion/ Irritation: **Category 2**

Specific Target Organ Toxicity (Single Exposure): **Category 3**

Specific Target Organ Toxicity (Repeated Exposure): **Category 2**

Carcinogenicity: **Category 1A**

### 2.2 GHS Label elements

#### Pictograms and Signal Words



**Danger**

#### Hazard Statement(s)

H315	Causes skin irritation.
H318	Causes serious eye damage.
H335	May cause respiratory irritation.
H373	May cause damage to lungs and respiratory tract through prolonged or repeated exposure.
H350	May cause silicosis-induced lung cancer through inhalation of airborne silica.

#### 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)

- 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.
- 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.
- P310** Immediately call POISON CENTRE 131126 or Doctor if you feel unwell.
- P321** Specific treatment is advised - see first aid instructions.
- 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** 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

Frequent inhalation of dust material over periods of time increases the risk of developing silicosis and lung disease. Contains Calcium Oxide. Forms Calcium hydroxide when mixed with water, which has a corrosive effect on eyes and skin.

\* Specific Target Organ Systemic Toxicity (Single Exposure): Category 3 relates to airborne silica particles from White Cement. Use of recommended PPE is advised.

## Section 3: Composition/Information on Ingredients

White Cement consists of a crystalline mass manufactured from substances mined from the earth's crust. It contains trace amounts of naturally occurring, metals such as chromium and nickel and crystalline silica.

Chemical Entity	Proportion	CAS Number
<b>Cement General Purpose or Blended containing:</b>	<b>15-35%</b>	<b>65997-15-1</b>
Ground Granulated Blast Furnace slag (where applicable)	8-80%	65996-69-2
Fly Ash (where applicable)	8-50%	68131-74-8
Portland Cement Clinker	20-95%	65997-15-1
Gypsum (CaSO <sub>4</sub> 2H <sub>2</sub> O)	0-5%	10101-41-4
Limestone (CaCO <sub>3</sub> )	0-7.5%	1317-65-3
Calcium Oxide	0-3%	1305-78-8
Hexavalent Chromium Cr (VI)	<10 ppm	18540-29-9
Crystalline Silica (Quartz) in ash	<1 – 10%	14808-60-7
Total respirable silica	Below reporting limits	14808-60-7
<b>Washed Sand containing:</b>	<b>25-40%</b>	
Crystalline Silica (Quartz) in ash	>95%	14808-60-7

Total respirable silica	Below reporting limits	14808-60-7
Hexavalent Chromium Cr (VI)	<1 ppm	18540-29-9
<b>Washed Aggregate</b>	<b>35-55%</b>	

## Section 4: First Aid Measures

### 4.1 Description of necessary first aid measures

<b>Ingestion/Swallowed:</b>	Rinse mouth and lips with water. Do not induce vomiting, get medical attention showing the Safety Data Sheet and the hazard label. If symptoms persist, contact a Poisons Information Centre on 13 11 26 or a doctor.
<b>Eyes:</b>	Flush thoroughly with flowing water for 15 minutes to remove all traces. If symptoms such as irritation or redness persist, seek medical attention. If wet cement is splashed in the eye, always treat as above, and seek urgent medical attention.
<b>Skin:</b>	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.
<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. Wet cement burns to skin or eye may result in corrosive caustic burns.  Ingestion of significant amounts of cement dry or wet is unlikely. Do not induce emesis or perform gastric lavage. Neutralization with acidic agents is not advised because of increased risks of exothermic burns. Water-mineral oil soaks may aid in removing hardened cement from the skin.  Ophthalmologist should be sought for burns to eyes.

### 4.2 Symptoms caused by exposure

Eye Damage  
 Eye Irritation  
 Skin Irritation/sensitivity  
 Obstructed or irregular breathing.

### 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

<b>Fire/Explosion Hazard:</b>	None	<b>Special Protective</b>	None required
<b>Hazchem Code:</b>	None allocated	<b>Precautions</b>	
<b>Flammability:</b>	Not flammable	<b>and equipment for</b>	
<b>Extinguishing Media:</b>	None required.	<b>fire fighters:</b>	
<b>Hazards from</b>	None		
<b>Combustion Products:</b>			

## 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

Spills are best cleaned up by vacuum device to avoid generating airborne dust. Recommendations on Exposure Control and Personal Protection should be followed during spill clean-up. Keep product out of storm water and sewer drains. Wetting during clean-up will cause formation of setting cement.

## 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 for other purposes before they have been thoroughly 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: Keep away from water and sources of moisture.

Instructions as regards storage premises: Protect from moisture to prevent hardening. Storage may be in concrete silos, steel bins or plastic lined multi-ply paper bags. Ensure premises are adequately ventilated.

## Section 8: Exposure Controls/Personal Protection

### 8.1 Exposure control parameters

#### Exposure standards

Ingredient	Reference	TWA		STEL	
		ppm	mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>
Calcium carbonate (Limestone, Marble, Whiting)	SWA (AUS)	--	10	--	--
Calcium oxide	SWA (AUS)	--	2	--	--
Chromium (VI) compounds (as Cr)	SWA (AUS)	--	0.05	--	--
Gypsum (Calcium sulphate)	SWA (AUS)	--	10	--	--
Magnesium oxide (fume)	SWA (AUS)	--	10	--	--
Portland Cement	SWA (AUS)	--	10	--	--
Silica – Crystalline Quartz (respirable dust)	SWA (AUS)	--	0.05	--	--

## 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 and PPE

- Eyes / Face:** Wear safety glasses or dust-proof goggles when handling material to avoid contact with eyes. Wet material is a greater risk to the eyes than dry powder.
- Body/Skin:** Use clothing that provides comprehensive protection to the skin, e.g. cotton, rubber, PVC or Viton. Long sleeved shirt and full-length trousers.
- Hands:** Wear PVC, rubber or cotton gloves when handling material to prevent skin contact.; AS/NZS 2161.10:
- Respiratory:** Where an inhalation risk exists wear a Class P1 (Particulate) respirator, dependent on a site-specific risk assessment.

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## Section 9: Physical and Chemical Properties

- Appearance:** A fine powder ranging in colour from grey to off-white
- Odour:** No distinctive odour
- Boiling/Melting Point:** Melting point >1200°C
- Vapour Pressure:** Not applicable
- Specific Gravity:** 2.75
- Flash Point:** Not applicable
- Flammability Limits:** Not applicable
- Solubility in Water:** Slight, reacts on mixing with water forming an alkaline solution (caustic, pH>11).
- Particle Size:** Up to 50% of the fresh dry material may be respirable (below 10 microns)

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## Section 10: Stability and Reactivity

- Chemical Stability:** Chemically stable
- Conditions to Avoid:** Keep free of moisture until use
- Incompatible Materials:** None
- Hazardous Decomposition Products:** May evolve toxic gases if heated to decomposition.
- Hazardous Reactions:** A corrosive substance harmful to exposed skin is the result of water addition to the point of creating a paste or slurry. See SDS for Wet Concrete.

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## Section 11: Toxicological Information

- Acute toxicity** No known toxicity data is available for this product. Based on available data, the classification criteria are not met.
- Skin** Irritating to the skin. Contact with powder or wetted form may result in irritation, rash and dermatitis.
- Eye** Irritating to the eyes. Contact may result in irritation, lacrimation, pain, redness, corneal burns and possible permanent damage. Risk increases if material is in a wet state.

<b>Sensitisation</b>	This product is not classified as a skin or respiratory sensitiser. However, some individuals may exhibit an allergic response upon exposure to cement, possibly due to trace amounts of chromium.
<b>Mutagenicity</b>	Not classified as a Mutagen.
<b>Carcinogenicity</b>	This product may contain crystalline silica, when the blend contains Fly ash, which is classified as carcinogenic to humans (IARC Group 1). However, there is sufficient information to conclude that the relative risk of lung cancer is increased in persons with silicosis. Therefore, preventing the onset of silicosis will also reduce the cancer risk.
<b>Reproductive</b>	Not classified as a reproductive toxicant.
<b>STOT – single exposure</b>	Irritating to the respiratory system. Over exposure may result in irritation of the nose and throat, with coughing. High level exposure may result in breathing difficulties.
<b>STOT – repeated exposure</b>	Repeated exposure to respirable silica may result in pulmonary fibrosis (silicosis). Silicosis is a fibronodular lung disease caused deposition in the lungs of fine respirable particles of crystalline silica. Principal symptoms of silicosis are coughing and breathlessness. In the wet state, the likelihood of an inhalation hazard is reduced.
<b>Aspiration</b>	This product is a stable solid and aspiration hazards are not expected to occur.

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## Section 12: Ecological Information

<b>Ecotoxicity:</b>	Product forms an alkaline slurry when mixed with water.
<b>Persistence and Degradability:</b>	Product is persistent and would have a low degradability.
<b>Bio accumulative potential:</b>	This product is not expected to bio accumulate.
<b>Mobility:</b>	A low mobility would be expected in a landfill situation.

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## 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.

White Cement can be treated as a common waste for disposal to an approved landfill site, in accordance with local authority guidelines.

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

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).

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.

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## Section 14: Transport Information

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

<b>UN Number:</b>	None allocated
<b>Proper Shipping Name:</b>	None allocated
<b>Class and Subsidiary Risk:</b>	None allocated
<b>Packing Group:</b>	None allocated

**Special precautions for user:** Avoid generating and breathing dust

**Hazchem Code:** None allocated

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## 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).

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## Section 16: Other Information

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

### Previous Edition and edits made:

**2020** – Format updates

**2022** – Format updates

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**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.

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[SDS Ends]