SAFETY DATA SHEET

Cement Pigment - Oxides

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

Company Details – Manufacturer

TCM

35 Merri Concourse Campbellfield, VIC, 3061
Tel: 03 9357 8582

Product

Name: **Cement Pigment, Cement Oxide**

Other Names: Yellow, Marigold, Red, Brown, Tuscany, Beige, Black, Dark Brown, Light Brown, Sandstone, White, Blue, Ocean Green

Use: Oxides are used as a concrete additive colorant/pigment. The type of metal used in the pigment dictates colour.

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.

2.2 GHS Label elements

Hazard Statement(s)

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

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 carefully and follow instructions before use.
P261	Avoid breathing dust.
P264	Wash any skin exposed to the product thoroughly after handling.
P271	Use only outdoors or in a well-ventilated area.

P280	Wear protective gloves in accordance with AS2161. Wear eye protection in accordance with (AS/NZS1337.1).

Response Statement(s)

P310	Immediately call POISON CENTRE 131126 or Doctor if you feel unwell.
P302+P352	IF ON SKIN: Wash with plenty of soap and water.
P304+P340	IF INHALED: Remove affected person to fresh air and keep at rest in a position comfortable for breathing
P301+P330+P331	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. If feeling unwell, get medical attention showing the SDS and label.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do so. Continue rinsing.

Storage Statement(s)

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

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 data available.

Section 3: Composition/Information on Ingredients

Ingredient	CAS Number	EC Number	Content
Titanium Dioxide	13463-67-7	236-675-5	0 to 100%
Iron Hydroxide Oxide	20344-49-4	243-746-4	0 to 100%
Iron Oxide (Fe_2O_3)	1309-37-1	215-168-2	0 to 100%
Iron Oxide (Fe_3O_4)	1317-61-9	215-277-5	0 to 100%
Cr_2O_3	1308-38-9	215-160-9	0 to 100%
Pigment Blue 29	5455-37-5	611-533-9	0 to 100%

Section 4: Health Hazard Information

4.1 Description of necessary first aid measures

First Aid

Ingestion/Swallowed:	Rinse mouth and lips with water. If feeling unwell, seek medical attention.
Eyes:	Flush eyes with water for 15 minutes, removing contact lenses if safe to do so. If irritation persists, seek medical attention.
Skin:	Wash with plenty of water and soap. Shower if necessary.
Inhalation:	Remove to fresh air, away from dusty area. If symptoms persist, seek medical attention. If unconscious, place in recovery position and seek medical attention immediately.

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First Aid Facilities:	Eye wash station. Washing facilities with running water/shower.
Advice to Doctor:	Treat symptomatically.

4.2 Symptoms caused by exposure

May cause mechanical irritation of eyes, skin respiratory tract or nose, and result in coughing or sneezing. Dust may cause breathing difficulty or discomfort. Persons with pre-existing respiratory conditions may be affected to a greater extent.

Section 5: Fire Fighting Measures

Fire/Explosion Hazard:	None. Cement Pigments are stable substances, compatible with most other building materials. Burning may produce obnoxious sand toxic fumes.
Hazchem Code:	None allocated
Flammability:	Not flammable
Extinguishing Media:	Use extinguishing agent suitable for surrounding fire
Hazards from Combustion Products:	None known
Special Protective Precautions and equipment for fire fighters:	Wear self-contained breathing apparatus

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Hazchem Code:	None allocated		
Flammability:	Not flammable		
Extinguishing Media:	None in particular. Consider ignition source and surrounding conditions.		
Hazards from Combustion Products:	Do not inhale explosion and combustion gases. Burning may produce toxic fumes.		

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

Dispose of without creating dust. Pigment spills are best cleaned up by vacuum device. Where sweeping or shovelling is required a fine water spray should be applied to prevent the dispersion of dust into the air.

Personnel exposed to pigment powder in confined environments should use relevant PPE.

Keep product out of storm water and sewer drains. Scoop into containers and seal for disposal. Dispose of according to local/state/federal regulations

Section 7: Handling and Storage

Handling: Storage of pigment may be in containers or plastic lined multi-ply paper bags. Keep in a cool dry environment. Store in original container.

Storage: Avoid dust formation.

7.1 Precautions for safe handling

Avoid contact with skin and eyes, inhalation of dust.

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	
		ppm	mg/m3
Calcium Carbonate	SWA (AUS)	--	10
Iron Oxide (Fe203)	SWA (AUS)	--	5
Iron oxide (as Fe)	SWA (AUS)	--	5
Titanium dioxide (a)	SWA (AUS)	--	10
Cr203	SWA (AUS)	--	0.5

8.2 Engineering controls

Avoid inhalation. Use in well ventilated areas. Maintain dust levels below the recommended exposure standard.

8.3 Individual protection measures

PPE

Eyes / Face:	Safety glasses recommended, or dust-proof goggles in high dust environments. Operate according to good working practices.
Body/Skin:	No special precaution must be adopted for normal use.
Hands:	Suitable materials for safety gloves; AS/NZS 2161.10: Polychloroprene - CR: thickness >=0,5mm; breakthrough time >=480min. Nitrile rubber - NBR: thickness >=0,35mm; breakthrough time >=480min. Butyl rubber - IIR: thickness >=0,5mm; breakthrough time >=480min. Fluorinated rubber - FKM: thickness >=0,4mm; breakthrough time >=480min
Respiratory:	Dust protection mask recommended. 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:	Powder in varying colours (dependent on oxide composition)
Odour:	No odour
Boiling/Melting Point:	N/A
Freezing/Melting Point:	1800°C
Vapour Pressure:	Not applicable
Specific Gravity:	4.8
Flash Point:	Not applicable
Solubility:	Insoluble

Section 10: Stability and Reactivity

Chemical Stability:	Stable under normal conditions
Conditions to Avoid:	Avoid dust formation. At >80 Centigrade product may oxidise, and this may generate additional heat. Do not store near heat sources.
Incompatible Materials:	None known
Hazardous Decomposition Products:	None with normal processing
Hazardous Reactions:	None under normal conditions

Section 11: Toxicological Information

Information on toxicological effects

Acute toxicity	This product is expected to be of low toxicity. Under normal conditions of use, adverse health effects are not anticipated. Oral acute toxicity: LD50 (rat) > 10 000 mg/kg Inhalation acute toxicity: LD50 (rat) > 200 mg/m3/2 weeks
Skin	Not classified as a skin irritant. Contact may result in mechanical irritation, redness, and rash.
Eye	Not classified as an eye irritant. However, this product may cause mechanical eye irritation and lacrimation.
Sensitisation	Not classified as causing respiratory or skin sensitisation.

Mutagenicity	Insufficient data available to classify as a mutagen.
Carcinogenicity	Not classified as a carcinogen. However, titanium dioxide is classified as possibly carcinogenic to humans.
Reproductive	Insufficient data available to classify as a reproductive toxin.
Aspiration	This product is a solid and aspiration hazards are not expected to occur

Section 12: Ecological Information

12.1 Ecotoxicity

Adopt good working practices so that the product is not released into the environment. The main components of this product are not anticipated to cause any adverse effects to the environment

General eco-toxicological properties:

Material	Eco-Toxicological Information
Metal Oxide	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 bio accumulate. Avoid contamination of drains and waterways.

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

Cement pigment can be disposed of in approved chemical landfill or incinerated in accordance with applicable regulations.

Keep material out of storm water and sewer drains.

Measures should be taken to prevent dust generation and personnel should use recommended personal protective equipment

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:	Avoid generating and breathing dust
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:

2020 – Format updates

2022/2023 – 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]