

# SAFETY DATA SHEET- OXIDE



Issue date: 01/07/24

Revision Date: 01/07/25  
Revision Note: Synthetic

Version 2.2

## Section 1 PRODUCT IDENTIFIER AND CHEMICAL IDENTITY

### Product identifier

Product name **IRON OXIDE PIGMENT**  
Synonym(s) TCM Oxides, Yellow, Marigold, Red, Brown, Terracotta, Beige, Black, Dark Brown, Light Brown, Sandstone, White

### Uses and uses advised against

Recommended use: Colorant, Concrete additive, Pigment

Supplier **TCM COLOUR**  
**35 Merri Concourse**  
**CAMPBELLFIELD VIC 3061**  
Ph: (03) 9357 8582

### Emergency Telephone number(s)

Poisons information: **13 11 26**

## Section 2 HAZARDS IDENTIFICATION

Non-hazardous according to Safe Work Australia criteria

GHS Classification	GHS Signal Word	GHS Pictogram/s
N / A	N / A	N / A

### Hazard Statements

No signal word, pictograms, hazard or precautionary statements have been allocated

### Risk Phrases

R36/37/38 Irritating to eyes, respiratory system and skin  
R43 May cause sensitisation by skin contact

### Safety Phrases

S22 Do not breathe dust  
S24/25 Avoid contact with skin and eyes  
S28 After contact with skin wash immediately with plenty of soap  
S29 Do not empty into drains  
S36/37/39 Wear suitable protective clothing, gloves and eye/face protection

## Section 3 COMPOSITION /INFORMATION ON INGREDIENTS – Synthetic Oxide

### Substances / Mixtures

Ingredient	CAS Number	EC Number	Content
Limestone (Calcium Carbonate)	1317-65-3	215-279-6	0 to 80%
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 (FE203)	1309-37-1	215-168-2	0 to 100%
Iron Oxide (FE304)	1317-61-9	215-277-5	0 to 100%

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## Section 4 FIRST AID MEASURES

### **Short Term (Acute) Exposure**

**Swallowed** No significant effects  
**Eyes** Irritating to the eyes, seek medical attention if irritation persists  
**Skin** No significant effects  
**Inhaled** Cement pigment is irritating to the nose, throat and respiratory tract, causing coughing and sneezing

### **Long Term (Chronic) Exposure**

**Eyes** In dust form, it may cause mechanical irritation  
**Skin** No significant effects  
**Inhaled** May be discomforting. Persons with pre-existing respiratory conditions may be affected to a greater extent.

### **First aid measures**

**Inhalation** Move to fresh air, get medical attention if symptoms occur.  
**Ingestion** No special measures required, rinse mouth and lips with water  
**Eye contact** Flush with clean water for 15 minutes, occasionally raising eye lids. Check for and remove contact lenses if easy to do so. Seek medical attention if irritation persists  
**Skin contact** Wash skin with mild soap and water.

**More important symptoms and effects, both acute and delayed** see section 11 for more detailed information on health effects and symptoms.

**Indication of any immediate medical attention and special treatment needed** See section 11 for more detailed information on health effects and symptoms

## Section 5 FIREFIGHTING MEASURES

**Extinguishing Media** Suitable extinguishing media for the surrounding fire.  
**Special hazards caused by the material, its combustion products or resultant gases** None  
**Advice for firefighters** Not applicable  
**Hazchem code** None allocated

## Section 6 ACCIDENTAL RELEASE MEASURES

**Personal precautions, protective equipment and emergency procedures** Wear appropriate person protective equipment  
**Environmental precautions** Do not sweep or wash into public stretches of water, sewers or sites of unknown discharge paths.  
**Methods of cleaning up** Clean up immediately with wetting or absorbent material avoiding dusting.  
**Reference to other sections** See sections 8 & 13 for exposure controls and disposal

## Section 7 HANDLING AND STORAGE

**Precautions for safe handling:** No special measures required  
**Conditions for safe storage, including any incompatibilities:** No special measures required  
**Specific end use(s)** Recommendations: Not available

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## Section 8 : EXPOSURE CONTROLS /PERSONAL PROTECTION

**Control Parameters:** Exposure standards

<i>Ingredient</i>	<i>Reference</i>	<i>TWA</i>	
		<i>ppm</i>	<i>mg/m3</i>
Calcium Carbonate	SWA (AUS)	--	10
Iron Oxide (Fe2O3)	SWA (AUS)	--	5
Iron oxide (as Fe)	SWA (AUS)	--	5
Titanium dioxide (a)	SWA (AUS)	--	10

Biological Limits

No biological limit values have been entered for this product

### Exposure controls:

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

Personal protection measures:

Respiratory: recommended dust protection mask

Hand Protection: recommended protective gloves

Eye Protection: Safety glasses or if high dust levels dust proof glasses.

Hygiene measures: Do not eat, drink or smoke at work.

Wash hands, forearms and face after handling chemical products and before eating, smoking and going to lavatory and at end of working period.



## Section 9 : PHYSICAL AND CHEMICAL PROPERTIES

### Information on basic physical and chemical components

Appearance: coloured powder  
Odour: odourless  
PH: 3.5-8 (5% solution)  
Vapour pressure: not applicable  
Melting point: >1000°C  
Solubility in water: insoluble  
Viscosity: not applicable  
Ignition Temperature: not applicable  
Flash point: not applicable

### Other information

No additional information

## Section 10 : STABILITY AND REACTIVITY

**Reactivity:** No specific test data related to reactivity available

**Chemical stability:** Stable under recommended conditions of storage

**Possibility of hazardous reactions:** Under normal conditions reactions will not occur.

**Conditions to avoid:** Avoid heat, sparks, open flames and other ignition sources.

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

**Hazardous decomposition products:** May evolve titanium and iron oxides when heated to decomposition.

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## Section 11: HEALTH HAZARDS AND 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/m<sup>3</sup>/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

**Sensitization:** Not known to be a skin or respiratory sensitiser

**Mutagenicity:** Insufficient data

**Carcinogenicity:** Not classified as a carcinogen. However, titanium dioxide is classified as possibly carcinogenic to humans

**Reproductive:** Insufficient data

**Aspiration:** This product is a solid and aspiration hazards are not expected to occur

## Section 12: ECOLOGICAL INFORMATION

### Toxicity

The main components of this product are not anticipated to cause any adverse effects to the environment

Acute EC50 (microorganisms) > 10 000 mg/L/3hrs.

Acute EC50 (daphnia magna) > 100 mg/L/48hrs

**Persistence and durability:** Product is persistent and would have a low degradability

**Bioaccumulative potential** This product is not expected to bioaccumulate

**Mobility in soil** A low mobility would be expected in a landfill situation

**Other adverse effects** Avoid contamination of drains and waterways

## Section 13: DISPOSAL CONSIDERATIONS

### Waste treatment methods

**Waste disposal:** Examine possibilities for re-utilisation. For small amounts, cover with moist sand or similar, collect and dispose of to an approved landfill site. Avoid generating dust.

**Legislation:** Dispose in accordance with federal, state and local regulations.

## Section 14: TRANSPORT INFORMATION

Not classified as a dangerous good by the criteria of the ADG code, IMDG or IATA

	Land Transport (ADG)	Sea Transport (IMDG / IMO)	Air Transport (IATA / ICAO)
<b>UN Number</b>	None allocated	None allocated	None allocated
<b>Proper shipping name</b>	None allocated	None allocated	None allocated
<b>Transport hazard class</b>	None allocated	None allocated	None allocated
<b>Packing Group</b>	None allocated	None allocated	None allocated
<b>Environmental Hazards</b>		No	
<b>Special precautions for user</b>		Not allocated	

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## Section 15: REGULATORY INFORMATION

### Safety, health and environmental regulations/legislation specific for the substance or mixture

**Poison Schedule:** A poison schedule number has not been allocated to this product using the criteria in the Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP)

**Classifications:** Safework Australia criteria is based on the Globally Harmonised System (GHS) of Classification and Labelling of Chemicals.

The classifications and phrased listed below are based on the Approved Criteria for Classifying Hazardous Substances [NOHSC: 1008(2004)]

**Hazard codes:** None allocated

**Risk phrases:** None allocated

**Safety phrases:** None allocated

Inventory listing(s): Australia: AICS (Australian Inventory of Chemical Substances) All components are listed on AICS, or are exempt.

## Section 16: ANY OTHER RELEVANT INFORMATION

### Additional information

Personal Protective Equipment Guidelines:

The recommendations for protective equipment contained within this report is provided as a guide only. Method of application, environment, quantity, concentration and availability of engineering controls should be considered before selection of PPE.

Health Effects from exposure:

This will depend on several factors including: frequency and duration, quantity used, effectiveness of control measures, protective equipment used and method of application.

The data given here is based on current knowledge and experience. The purpose of this Safety Data Sheet is to describe the products in terms of their safety requirements. The data does not signify any warranty with regard to the products properties.

### Abbreviations:

AICS	Australian Inventory of Chemical Substances
GHS	Globally Harmonised System
LC50	Lethal concentration, 50% / Medial Lethal Concentration
Mg/m <sup>3</sup>	Milligrams per Cubic metre
NOHSC	National Occupational Health & Safety Commission
pH	relates to hydrogen ion concentration using a scale of 0 (high acidic) to 14 (highly alkaline)
ppm	Parts per million
SUSMP	Standard for the Uniform Scheduling of Medicines and Poisons
SWA	Safe Work Australia
TWA	Time weighted average

### Disclaimer

The information provided in this Safety Date Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text

End of Safety Data Sheet