

Section 1 - Identification of the Material and Supplier

Supplied by	OXERRA Australasia Pty Ltd 103 Vanessa St Kingsgrove NSW 2208 Phone: (02) 9336 1000 (Business hours) Fax (02) 9150 6677 0418 221 249 (24 hours /7 after hours)
Chemical nature	Iron Oxides; Iron Oxide Blends
Product Use	Colouring pigment for wide variety of industrial applications, cementitious and asphalt materials. Not suitable for food, cosmetic, pharmaceutical preparations and other applications where there is contact with foods.

POISONS INFORMATION CENTRE
CALL 13 11 26 FROM ANYWHERE IN AUSTRALIA (0800 764 766 IN NEW ZEALAND)

Section 2 - Hazards Identification

ADG Classification	Not classified as Dangerous Goods according to the criteria of the Australian Dangerous Goods (ADG Code) for transport by Road and Rail; NON-DANGEROUS GOODS
Statement of Hazardous Nature	This product is not classified as hazardous according to the Globally Harmonized System (GHS) including WHS Australia
SUSMP Classification	None allocated.

Section 3 - Composition/Information on Ingredients

Black

Ingredients

	CAS No.	Conc, %
Tri-iron tetraoxide (Black Iron Oxide)	1317-61-9	< 90 -100 %
Other non-hazardous substances	mixture	< 0 -10 %

This is a commercial product whose exact ratio of components may vary slightly. Minor quantities of other non-hazardous ingredients are also possible to determine desired colour.

Light Brown

Ingredients

	CAS No.	Conc, %
Tri-iron tetraoxide (Black Iron Oxide)	1317-61-9	< 10 - 80 %
Iron hydroxide - oxide yellow (Yellow Iron Oxide)	51274-00-1	< 1 -60 %
Di-iron Trioxide (Red Iron Oxide)	1309-37-1	< 10 – 50 %

This is a commercial product whose exact ratio of components may vary slightly. Minor quantities of other non-hazardous ingredients are also possible to determine desired colour.

Dark Brown

Ingredients

	CAS No.	Conc, %
Tri-iron tetraoxide (Black Iron Oxide)	1317-61-9	< 20 - 70 %
Di-iron Trioxide (Red Iron Oxide)	1309-37-1	< 30 – 80 %

This is a commercial product whose exact ratio of components may vary slightly. Minor quantities of other non-hazardous ingredients are also possible to determine desired colour.

Yellow

Ingredients

	CAS No.	Conc, %
Iron-hydroxide-oxide yellow (Yellow Iron Oxide)	51274-001	< 90 -100 %
Other non-hazardous substances	mixture	<0 -10 %

This is a commercial product whose exact ratio of components may vary slightly. Minor quantities of other non-hazardous ingredients are also possible to determine desired colour.

Sandstone

Ingredients

	CAS No.	Conc, %
Iron hydroxide-oxide Yellow (Yellow Iron Dioxide)	51274-00-1	< 80 – 99 %
Tri-iron tetraoxide (Black Iron Oxide)	1317-61-9	< 1 – 20 > %

This is a commercial product whose exact ratio of components may vary slightly. Minor quantities of other non-hazardous ingredients are also possible to determine desired colour.

Brick Red

Ingredients

Di-iron trioxide (Red Iron Oxide)
Other non-hazardous substances

CAS No.

1309-37-1
mixture

Conc, %

< 90-100 %
< 0 – 10 %

This is a commercial product whose exact ratio of components may vary slightly. Minor quantities of other non-hazardous ingredients are also possible to determine desired colour.

Light Red

Ingredients

Di-iron trioxide (Red Iron Oxide)
Other non-hazardous substances

CAS No.

1309-37-1
mixture

Conc, %

< 90-100 %
< 0 - 10 %

This is a commercial product whose exact ratio of components may vary slightly. Minor quantities of other non-hazardous ingredients are also possible to determine desired colour.

Terracotta

Ingredients

Iron-hydroxide-oxide yellow (Yellow Iron Oxide)
Di-iron trioxide (Red Iron Oxide)

CAS No.

51274-001
1309-37-3

Conc, %

< 35 -95 %
< 5- 65 %

This is a commercial product whose exact ratio of components may vary slightly. Minor quantities of other non-hazardous ingredients are also possible to determine desired colour.

Section 4 - First Aid Measures

Inhalation	If dust is inhaled, remove victim from area of exposure to fresh air. If breathing is difficult, administer oxygen by qualified personnel. Prolonged inhalation of dust may cause chronic respiratory irritation. A Poisons Information Centre or a doctor may be contacted if symptoms persist.
Contact with skin	Wash affected area gently and thoroughly with water and non-abrasive soap. If irritation does occur, seek medical attention.
Contact with eyes	Flush the exposed eye(s) with lukewarm gently flowing water immediately, while holding the eyelid(s) open until the product has been removed. Seek medical attention if the eye(s) continues to be irritated or if product is trapped in surface of the eye(s). If exposed person is wearing contact lenses, special care must be taken.
Ingestion	Do NOT induce vomiting if the product is swallowed or enters mouth; wash out mouth with water and provide water to drink. Never give anything by mouth to an unconscious person. If vomiting occurs, tilt the head low so that vomit does not enter the lungs. If large amount has been swallowed, contact a Poisons Information Centre or a doctor if in doubt or if symptoms develop.
First Aid Facilities	Maintain eyewash fountain and safety shower in work area.
Important symptoms and effects, both acute and delayed	Irritation, skin discolouration due to pigment stain. Pre-existing skin or/and respiratory disorders or disease may be aggravated.
Indication of immediate medical attention and special treatment needed.	Treat symptomatically.

Section 5 - Fire Fighting Measures

Extinguishing Media	Use extinguishing media suited to burning materials if involved in a fire. (Carbon Dioxide, dry chemical, foam, dry sand). Unsuitable extinguishing media: High volume water jet as this will spread the fire.
Specific Hazards arising from the product	Product is not considered flammable but packaging, i.e. paper bags, wooden pallets and plastic wrap will burn. Product may auto-oxidize if exposed to temperatures exceeding 77°C which generates heat and may ignite surrounding combustibles.
Special Protective Equipment and Precautions for Firefighters	If involved in fire, Firefighters must wear self-contained breathing apparatus and protective clothing in fighting large fires. Promptly isolate the scene by removing all persons from the vicinity of the incident. Personnel without suitable respiratory protection must leave the area to prevent significant exposure to hazardous gases from combustion, burning or decomposition. If safe to do so, remove containers from path of fire.

Section 6 - Accidental Release Measures

Personal precaution, protective equipment, and emergency procedures

Avoid accidents, clean up immediately. Hazards of slipping on spilt product. Clear area of unprotected personnel. Wear protective equipment to prevent eye contact. Collect and seal in properly labelled containers or drums for disposal. Wash area down with excess water.

Environmental precautions, Methods and materials for containment and cleaning up.

If safe to do so, stop leak, and contain spill. Prevent from entering soil, ditches, sewers, water ways, and/or ground water. Use absorbent (soil, sand or other inert) material to help contain the spill. Sweep up and shovel or collect recoverable product into labelled containers for recycling or salvage and dispose of promptly. Recycle containers wherever possible after careful cleaning. After spills, wash area preventing runoff from entering drains. If a significant quantity of material enters drains, advise emergency services. This material may be suitable for approved landfill. Ensure legality of disposal by consulting regulations prior to disposal. Thoroughly launder protective clothing before storage or re-use. Advise laundry of nature of contamination when sending contaminated clothing to laundry.

Section 7 - Handling and Storage

Precautions for safe handling

Wear protective equipment to avoid inhalation of dust, skin and eye contact. Use only in a well-ventilated area. Provide dust extractor to prevent the build-up of dust in the work atmosphere. Maintain high standards of personal hygiene such as washing hands prior to eating, drinking, smoking and after using toilet facilities.

Conditions for safe storage, including incompatibilities.

Store in a cool, dry, well-ventilated area out of direct sunlight and moisture. Product is stable if stored at temperatures below 41 °C, protected from exposure to the weather. Store in suitable labelled containers and tightly closed. Store away from water and other incompatible materials in Section 10. Ensure storage conditions comply with applicable local and national regulations.

Recommended storage temperature: < 32 °C

Storage duration: 120 months

Section 8 - Exposure Controls and Personal Protection

Control Parameters: No value assigned for the specific products by Safe Work Australia. However, Workplace Exposure standard for dust not otherwise specified is 10 mg/m³ (for inspirable dust) and 3 mg/m³ (for respirable dust). Over exposure should be kept to the least possible levels as it may result in enhancement of pre-existing medical conditions and/or allergic reactions.

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

Engineering Controls

Ensure ventilation is adequate and that air concentrations of components are controlled below quoted Workplace Exposure Standards. Keep containers closed when not in use. If engineering control such as local exhaust is not sufficient to maintain airborne levels below the exposure standards, suitable PPE must be worn to help achieve safe exposure levels.

Personal Protection

For body protection, wear cotton overalls buttoned at neck and wrist is recommended. Chemical resistant apron is recommended where large quantities are held. Safety glasses for eye protection conforming with AS/NZS 1337 and impervious gloves made to AS/NZS 2161.1. Avoid generating and inhaling dust. If inhalation risk exists, wear a dust mask/respirator meeting the requirements of AS/NZS 1715 and 1716. Always wash hands before smoking, eating drinking or using the toilet.



Section 9 - Physical and Chemical Properties:

Appearance	Powder
Colour	Varies (Black, Browns, Reds, Yellow, Sandstone, Terracotta)
Odour	No odour.
Odour Threshold	Not determined
pH (100g/l) @ 25 °C	3.0 – 9.0 (ISO 787-9)
Melting Point / freezing point	>1000 °C.
Initial boiling Point / boiling range	Not applicable.
Flash point	Not applicable.
Evaporation Rate	Product is non-volatile substance.
Flammability	Not flammable.
Upper / Lower flammability or explosive limits	The product does not present an explosion hazard.
Vapour Pressure	Product is non-volatile substance.

Vapour Density	Product is non-volatile substance.
Relative density (20°C)	Not determined.
Specific gravity @ 20°C	4.0 – 5.2 g/cm ³ (ISO 781-10)
Bulk density @ 20°C	800-1000 kg/m ³ (ISO787-11)
Solubility in water (20°C)	Insoluble.
Partition coefficient: n-octanol / water	No data available
Auto ignition temp	Not applicable - does not burn.
Decomposition temperature	> 80°C
Viscosity	Not applicable.

Section 10 - Stability and Reactivity

Reactivity and Chemical stability	This product is unlikely to react or decompose under normal storage conditions. It is stable under normal conditions of use.
Conditions to Avoid	At temperatures above 77°C product may become unstable and oxidize. This generates additional heat which under unfavourable conditions, may result in the combustion of flammable materials. Avoid storage near heat sources.
Incompatibilities	Bleaching agents and oxidizers which includes chlorine, oxygen, permanganates, perchlorates, percarbonates, peroxides, chromates, hypochlorites, nitric acid, and sulfuric acid.
Hazardous Decomposition Products	No decomposition products are expected at temperatures normally achieved in a fire.
Polymerisation	This product will not undergo polymerisation reactions.

Section 11 - Toxicological Information

Information on toxicological effects:

Acute Toxicity	LD ₅₀ = No data available. Classification criteria are not met
Ingestion	No known significant effects or critical hazards.
Inhalation	Prolonged inhalation of dust may cause chronic respiratory irritation.
Skin	No known significant effects or critical hazards.
Skin corrosion/irritation	May cause mechanical irritation due to abrasion.
Serious eye damage/irritation	Solid or dust may cause irritation or corneal injury due to mechanical abrasion by particles trapped in the eye.
Respiratory sensitisation	Not expected to be a respiratory sensitizer.
Skin sensitisation	Not expected to be a skin sensitizer.
Chronic effects	No information available for the product.
Carcinogenicity	Not considered to be a carcinogenic hazard.
Germ cell mutagenicity	Not considered to be a mutagenic hazard.
Reproductive toxicity	Not considered to be toxic to reproduction.
Specific target organ toxicity: Single Exposure and Repeated Exposure.	Not expected to cause toxicity to specific target organ.
Aspiration hazard	Not expected to be an aspiration hazard.

Section 12 - Ecological Information

This product is unlikely to adversely affect the environment. Expected not to be an environmental hazard or deplete the ozone layer.

Acute toxicity (fish)	Based on the insolubility of the pigment under environmental conditions, no reversible or irreversible adverse toxicological effects on aquatic or terrestrial organisms are expected.
Ecotoxicity	The product does not contain heavy metals in concentrations of concern for wastewater.
Biological Oxygen Demand (BOD ₅)	No data available.
Chemical Oxygen Demand (COD)	No data available.
Persistent and degradability	The product is inert and non-degradable.
Bioaccumulation potential	Unlikely significant due to low water solubility of the product.
Mobility in soil	Insoluble. Expected to remain on soil surface.

Section 13 - Disposal Considerations

The generation of waste must be avoided or minimized whenever possible. Where possible recycle unused product to process. of this product Disposal of unused and non-recyclable products /container should comply with the environmental protection and waste disposal legislation of regional and local authority by licensed waste disposal contractor. Incineration or landfill should only be considered when recycling is not feasible. Refer to Waste Management Authority.

Section 14 - Transport Information

This product is not classified as a Dangerous Good by ADG, IATA or IMDG/IMSBC criteria. No special transport conditions are necessary unless required by other regulations.

Section 15 - Regulatory Information

Based on available information, not classified as hazardous according to the Globally Harmonized System (GHS) and WHS Australia
AICIS – Listed or Compliant
Poison Schedule (SUSMP): None allocated.
NZIoC: Listed in the inventory.

Section 16 - Other Information

This SDS contains only safety-related information. For other data see product literature.

Creation date: October 2025 and is valid 5 years from this date.
Supersedes: nil version

Acronyms:

ADG Code	Australian Code for the Transport of Dangerous Goods by Road and Rail (7 th edition)
IMDG Code	International Maritime Dangerous Goods Code
IATA	International Air Transport Association
AICIS	Australian Industrial Chemical Introduction Schemes
NZIoC	New Zealand Inventory of Chemicals
SWA	Safe Work Australia, formerly ASCC and NOHSC
CAS number	Chemical Abstracts Service Registry Number
Hazchem Code	Emergency action code of numbers and letters that provide information to emergency services especially firefighters.
IARC	International Agency for Research on Cancer
NOS	Not otherwise specified.
NTP	National Toxicology Program (USA)
R-Phrase	Risk Phrase
SUSMP	Standard for the Uniform Scheduling of Medicines & Poisons
UN Number	United Nations Number

THIS SDS SUMMARISES TO THE BEST OF OUR KNOWLEDGE OF THE HEALTH AND SAFETY HAZARD INFORMATION OF THE PRODUCT IN SECTION 1, AND HOW TO SAFELY HANDLE AND USE THE PRODUCT IN THE WORKPLACE. EACH USER MUST REVIEW THIS SDS IN THE CONTEXT OF HOW THE PRODUCT WILL BE HANDLED AND USED IN THE WORKPLACE. IF CLARIFICATION OR FURTHER INFORMATION IS NEEDED TO ENSURE THAT AN APPROPRIATE RISK ASSESSMENT CAN BE MADE, THE USER SHOULD CONTACT OXERRA AUSTRALASIA PTY LTD SO WE CAN ATTEMPT TO OBTAIN ADDITIONAL INFORMATION FROM OUR SUPPLIERS. OUR RESPONSIBILITY FOR PRODUCTS SOLD IS SUBJECT TO OUR STANDARD TERMS AND CONDITIONS, A COPY OF WHICH IS SENT TO OUR CUSTOMERS AND IS ALSO AVAILABLE ON REQUEST. PLEASE READ ALL LABELS CAREFULLY BEFORE USING PRODUCT.