



MATERIAL SAFETY DATA SHEET. 01/01/2007

SYNERGY PIGMENTS IRON/MINERAL OXIDE BASED PIGMENT POWDER.

1. Identification of the Substance / Mixture and Supplier

Products Included: Supreme Black, Black 4318, Dark Brown, Mid Brown, Light Brown, Mission Brown, Bright Yellow, Marigold, Light Terracotta, Beige, Bright Red, Deep Red, Maroon, Burgundy.

Recommended Use: Mineral Oxide dry colour pigments for concrete, asphalt, coatings etc.

Molecular Formula: Fe_2O_3 , Fe_3O_4

Physical Properties: Fine, coloured powder and odourless. Insoluble in water. Soluble in acid. Colour changes can occur due to thermal decomposition where temperatures exceed 120 C.

PH Range: 3 to 8

Specific Gravity: (20C): 4.8:1

Solubility in Water: Approximately 1%

Boiling Point: Not Applicable

Melting Point: Not Applicable

Flashpoint: Not Applicable

Flammability Limits: Not Flammable

Supplier: Synergy Pigments Australia Pty. Ltd.
ACN: 115 380 099
Address: Unit 6 / 40 Oxleigh Drive, Malaga, WA 6060
Telephone: (08) 9249 9980
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2. Hazards Identification

Hazardous Substance: Non-Dangerous Good

Hazard Category: Irritant
Risk Phrases: R36/37/38
Safety Phases: S36
Class: Not Applicable
Subsidiary Risk: Not Applicable
Packing Group: Not Applicable
Poison Schedule: Not scheduled

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3. Composition/Information on Ingredients.

<u>Chemical Identity</u>	<u>CAS No.</u>	<u>Proportion</u>	<u>Hazard</u>
Iron Oxide 11	1317-61-9	5 – 100%	Xi
Iron Oxide 111	1309-37-1	5 – 100%	Xi

4. Precautions for Use.

Exposure Limits:	No value assigned for this specific material by the National Occupational Health and Safety Commission (Worksafe Australia).
Threshold Limit Value:	For Iron Dusts and Compounds is 5mg/cm ³
Ventilation:	As required to prevent dust level from exceeding THL.
Personal Protection:	Wear overalls, safety glasses and impervious gloves. Avoid generating dust, if dust exists use approved dust mask. Practice good work occupational work habits by always washing hands before eating, drinking, smoking or using the toilet. Always ensure protection equipment is clean before re-use.
Precautions for Use:	Only to be used as per recommended use.

5. First Aid.

Ingestion:	If swallowed and patient is conscious, wash out mouth with water and drink several glasses of water. DO NOT induce vomiting. DO NOT give anything by mouth to an unconscious patient. Seek medical attention.
Eye:	Immediately flush with fresh water for at least 15 minutes. Ensure adequate flushing by separating eyelids with fingers. Seek immediate medical attention.
Skin:	Wash thoroughly with soapy water. Remove contaminated clothing and footwear and wash before reuse or storage.
Inhalation:	Move immediately to fresh air and if necessary apply artificial respiration. Give oxygen if patient has difficulty breathing.
First Aid Facilities	Eyewash should be available in the workplace.
Advice to Doctor:	Treat symptomatically.

6. Fire Fighting Measures.

Fire/Explosion hazard	The product is not combustible.
Fire Fighting Advice	Ensure use of SCBA apparatus and full protective equipment to avoid contact with potential of metal fumes.
Extinguishing Media	Water, dry chemical, carbon dioxide or appropriate foam according to the surrounding fire.
Decomposition Products:	May include metal fumes in smoke, carbon monoxide and dioxide (from small component organic compounds).

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7. Accidental Release Measures.

Spillage and Disposal: Ensure protective overalls, gloves and safety goggles are worn by cleanup personnel. Approved respirators to be worn if required.
Carefully sweep spillage together, to allow collection.
Avoid rasing dust.
Collect spillage into appropriately labelled containers for storage, awaiting reuse, or dispose via the local waste facilities as per the required legislation.
Thoroughly wash the area with water to complete.

8. Handling and Transport.

Safe Handling: Store product in dry area.

Information: Ensure all containers are sealed when not in use.
Refer to product label.

Precautions for Use: Only to be used as per recommended use.

Transport Information Not defined as a Dangerous Good by the Australian Code for the Transport of Dangerous Goods by Road or Rail.

UN Number: Not Applicable

Proper Shipping Number: Not Applicable

Class: Not Applicable

Subsidiary Risk: Not Applicable

Packing Group: Not Applicable

Hazchem Code: Not Applicable

Segregation Dangerous Goods: Not Applicable

9. Stability.

Stability/Polymerisation Stable.

Incompatible Materials and Conditions: Contains metal compounds – do not mix with strong alkalis or acids; unless under controlled conditions.
May react with strong oxidisers eg. Bromates, Nitrates and Chlorates.
Avoid excessive heat or flame.

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10. Toxicological Information.

No adverse health effects are expected if the product is handled in accordance with this Safety Data Sheet and the product label.

Symptoms which may arise if the product is mishandled are:

Acute Effects

Ingestion:	May cause gastro-intestinal upset with nausea , vomiting and diarrhea.
Eye:	May cause irritation to the cornea with resulting redness and pain to the eye. Physical damage may occur due to particulate matter.
Skin:	May cause mild irritation to the skin with prolonged contact.
Inhalation:	If dust inhaled may cause irritation to the throat and respiratory tract resulting in coughing and shortness of breath. May also cause metal fume fever, chills, cough and chest pain.
Chronic Effects	Long term exposure to iron has resulted in mottling of the lungs, Siderosis. This is considered a benign pneumoconiosis and does not ordinarily cause significant physiological impairment. Long term eye exposure may stain eyes and leave “rust rings”.
Toxicology:	No data available. No known carcinogenic, mutagenic or reproductive – developmental effects, but it is considered that these materials have not been thoroughly researched. Iron oxide dust exposed to lab animals has been shown to remain in the lungs, but did not result in the development of lung cancer.

11. Ecological Information.

Environmental Fate:	Avoid contaminating waterways.
Aquatic Toxicity:	No data available.
Terrestrial Toxicity	No data available.

12. Disposal Considerations.

Dispose of the product as per local regulations.

Ensure containers are effectively cleared of product and disposed as per local regulations.

13. Regulatory Information.

Poison Schedule: Not scheduled

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14. Other Information.

Please note: The precautions and advice provided may not be accurate for all individuals and/or situations. It is the user's obligation to evaluate and use this product safely and to comply with all applicable legislation. No statement made in this data sheet shall be construed as permission, a recommendation or authorisation given or implied to practice any patented invention without a valid licence. The company named in this document will not be responsible for any damage or injury resulting from abnormal use of the material from any failure to adhere to recommendations, or from hazards inherent in the nature of the material.

End of MSDS