SAFETY DATA SHEET. 20/02/2024

SYNERGY PIGMENTS IRON/MINERAL OXIDE BASED PIGMENT POWDER FOR CONCRETE.

1. Identification of the Substance / Mixture and Supplier

Products Included: **Supreme black, Best black, Best Red, Bright Red, Deep Red, Asphalt Red,Jet Black**
Recommended Use: Mineral Oxide dry colour pigments for concrete, asphalt, coatings etc.
Molecular Formula: Fe_2O_3,
Physical Properties: Fine, coloured powder/granule and odourless. Insoluble in water.

Supplier: Synergy Pigments Australia Pty Ltd.
ACN: 115 380 099
Address: 236 Planet St St Welshpool 6106
Telephone: 1300 655 853
Email : info@oxide.com.au

2. Hazards Identification

Hazard Category: Irritant
Risk Phrases: R36/37/38 irritating to eye, skin, respiratory system
R43 May cause sensitisation to the skin
Safety Phases: S22 Do not breath in dust
S24/25 Avoid contact with skin and eyes
S28 Wash with soap and water after contact
S28 Do not wash residue into drains
S36/37/39 Wear protective clothing eye and face protection

3. Composition/Information on Ingredients.

Chemical Identity	CAS No.	Proportion
Iron Oxide (Fe2 O3)	**1317-61-9**	**80 – 100%**

4. First Aid Information.

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.

5. 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

6. 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 raising 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.

7. Handling and Storage.

Safe Handling:	Store product in dry area in original packaging
Information:	Ensure all containers are sealed when not in use. Refer to product label.

8: Exposure Controls Personal Protection

Exposure Limit :	Iron Oxide TWA 3Mg/m3
Recommendations:	Keep exposure to dust to a minimum
Engineering Controls :	All work with pigments should be carried out in manner to minimise exposure to dust and skin contact. When handling iron oxide pigments, use local mechanical ventilation or extraction in areas where dust could escape into the work environment. Follow the instructions on the packaging. Work areas should be cleaned by wet sweeping or vacuum. If generated dust cannot be avoided follow personal protection recommendations.

Personal Protection

Skin: Wear protective clothing and impervious boots.
Wash skin thoroughly after handling with soap and water.
Wash work clothing regularly and separately from other clothing.

	Use barrier creams were needed.
Eyes:	Safety Glasses with side shields or safety goggles
Respiratory:	In dusty environments use a filter mask AS1715 and AS1716 (Class P1 or P2) and tight fitting goggles (AS/NZS 1336). Use only respirators that bear the Australian Standards mark and are fitted correctly.
Ventilation:	Local dust extraction and collection may be used, if necessary, to control airborne dust levels
Flammability:	Non-flammable. Does not support combustion of other materials.

9 : Physical and Chemical Properties

Appearance: Powder
Odour: No odour
pH: Not applicable
Freezing/Melting Point: >1000ºC
Vapour Pressure: Not applicable
Specific Gravity: 4.7 g/cm³ approx
PH Range: 3 to 8
Flash Point: Not applicable
Solubility: Soluble in acid.
Solubility in Water: Approximately 1%
Colour changes can occur due to thermal decomposition where temperatures exceed 120 C.
Flammability Limits: Not Flammable

10 : Stability and Reactivity

Chemical Stability : Product is considered stable
Reactivity : refer section 7
Hazardous reactions : none under normal conditions
Conditions to avoid : refer section 7
Hazardous Decomposition Products : None in normal conditions
Incompatible materials : None known

11. 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 gastrointestinal upset with nausea , vomiting and diarrhoea.
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, Sclerosis. 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.

12. Ecological Information.

Ecotoxicity:	Avoid contaminating waterways.
Persistence and Degradability	Generally persistent and low degradability
Mobility	Low mobility in landfill

13. Disposal Considerations.

Dispose of the product in approved chemical land fill as per local regulations.
Ensure containers are effectively cleared of product and disposed as per local regulations. Take precautions to avoid dust during disposal.

14. Transport Information.

Transport is done in bag/ bulk form by rail , road sea or air
UN Number: none
Proper Shipping Number: none
Class/ Subsidiary Risk: none
Packing Group: none
Hazchem Code: none

15. Regulatory information

Australian Legislation: Not Hazardous according to NOHSC (Worksafe Australia) criteria

16 Other Information

For further information on this product Call 1300 655 853

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 SDS