

SNEYD CERAMICS LIMITED

SNEYD MILLS, LEONORA STREET, BURSLEM,
STOKE ON TRENT, ENGLAND, ST6 3BZ.
TEL: (01782) 814167 FAX: 01782 450248

E-MAIL: sales@sneydceramics.co.uk URL: <http://www.sneydceramics.co.uk>

SAFETY DATA SHEET

SDS: 2024

1. PRODUCT & IDENTIFICATION DETAILS

PRODUCT DESCRIPTION: MANGANESE DIOXIDE

2. COMPOSITION / INFORMATION ON INGREDIENTS

<u>Contents</u>	<u>EINECS & CAS NUMBERS</u>
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Manganese Dioxide	215-202-6 / 1313-13-9
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Oxides of iron, silicon and aluminium are also present (each typically <10% by weight).

3. HAZARD IDENTIFICATION



Harmful.

R20/22 – Harmful by inhalation and if swallowed. S25 – Avoid contact with eyes

4. FIRST AID

Eye Contact:	Flood with clean water for 15 minutes and seek medical advice if irritation persists.
Skin Contact:	Remove contaminated clothing. Wash the affected area with soap and water. If irritation persists, seek medical attention.
Ingestion:	Do not induce vomiting. If patient is conscious, give water to drink.
Inhalation:	Seek immediately a source of fresh air. If respiratory tracts are irritated, seek medical advice.

Most important symptoms and effects, both acute and delayed
Inhalation: May cause coughing Ingestion: May cause indigestion
Skin contact: No specific symptoms noted.
Eye contact: May cause acute redness of the eyes

Cont'd

5. FIRE FIGHTING PROCEDURES

This product is not explosive or combustible but if involved in a fire will decompose at approximately 530 Deg C with the evolution of oxygen causing the fire to burn more fiercely. Standard fire fighting techniques only are required, i.e. water, sand, carbon dioxide, chemical foam extinguishers etc. Care should be taken to observe the local surrounding area.

6. ACCIDENTAL RELEASE MEASURES

Remove any dry material either by a vacuum cleaner fitted with an efficient filter, or by wet sweeping to avoid creating dust. Any collected waste must be stored in a suitable container prior to disposal. Do not flush away with water. Take precautions against the material entering water courses or sewers, if product does, inform local authorities immediately.

7. HANDLING & STORAGE

Prevent extensive contact with eyes, skin and clothing.
Wash hands / skin after use. Do not eat, drink or smoke when using this material and keep away from animal feeding stuffs.

Local exhaust ventilation is recommended to comply with occupational exposure limits (see Guidance Note EH40 – latest edition).

Store in secure containers in dry conditions, avoiding extremes of temperature and protect from frost.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

In conditions of spray mist or product dust, local exhaust ventilation should be provided to comply with occupational exposure limits (see Guidance Note EH40 – latest edition).

Hand / Skin Protection: Gloves (plastic or rubber, cotton lined).

Eye Protection: Goggles (BS2092, Grade 1 : CDM).

Respiratory Protection: If local exhaust ventilation is not adequate, HSE approved respiratory equipment must be provided.

9. PHYSICAL & CHEMICAL PROPERTIES

Form: Matt Black / Brown Powder
Odour: Odourless
Solubility: Negligible

10. STABILITY & REACTIVITY

This product is considered to be stable over normal conditions

11. TOXICOLOGICAL INFORMATION

<u>Chemical</u>	<u>LD50 Oral</u>
Manganese Dioxide	>3,478mg/kg (Rat)
	9,000mg/kg (Rat)

12. ECOLOGICAL INFORMATION

Product is practically insoluble in water. No specific data available.

13. DISPOSAL

Dispose of this material and residues in accordance with local authority requirements.

14. TRANSPORTATION

Non hazardous for transportation – no special precautions required.

15. REGULATORY INFORMATION

Supply Hazard Classification: Label Xn – Harmful.

16. OTHER INFORMATION

R20/22 – Harmful by inhalation and if swallowed

R48/20 – Harmful: danger of serious damage to health by prolonged exposure through inhalation.

Good industrial hygiene practices are recommended when handling and using this product.

DISCLAIMER

The information contained in this safety data sheet has been prepared using the best available information, however in view of technical developments, this may alter.

The material must only be used for its stated purpose and the information contained within this data sheet is offered solely for use in the evaluation of this product in respect of safety, health and environmental hazards.

Due to the many factors outside our control when using this product, we cannot accept liability for any injury, accident, loss or damage caused through its use.