CTM POTTERS SUPPLIES

SAFETY DATA SHEET

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product information:

Product Name : Manganese Dioxide

Chemical Name : Manganese Dioxide with associated mineral

Synonyms : None

Company : CTM Potters Supplies

Unit 10A, Millpark Industrial Estate

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Woodbury Salt Nr. Exeter

EX5 1EL
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2. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients CAS Number EC Number % of composition

Manganese dioxide 1313-13-9 2152026 70-80

The rest is associated, naturally occurring minerals, composed of iron, alumina and silica.

 $Manganese\ dioxide\ is\ classified\ in\ the\ CHIP\ regulations:\ harmful\ by\ inhalation\ and\ if\ swallowed\ when\ present\ at\ >25\%.$

3. HAZARD IDENTIFICATION

Inhalation: Excessive exposure cases chronic manganese poisoning, with damage to the central nervous system. Removal from

exposure arrests the disease and some improvements may follow. Early symptoms include loss of appetite, headaches, dizziness, indifference and apathy. Later symptoms include disturbances in gait and speech, rigid facial

expressions (mask like) and tremors of the limbs.

Ingestion: May cause gastrointestinal upsets, nausea and vomiting. Symptoms of chronic exposure are as for the inhalation

route, but the stomach absorbs manganese dioxide very slowly, so the effects are much smaller.

Eyes: May cause physical irritation and inflammation.

Skin: The material is not a primary irritant, but as with any abrasive powder it may give rise to minor irritation.

The material can dehydrate skin and mucous membranes.

4. FIRST AID MEASURES

General Recommendations:

Inhalation: Remove patient to fresh air, loosen tight clothing and seek medical attention.

Ingestion: Do not induce vomiting. Seek medical advice.

Eyes: Wash immediately with copious amounts of water.

Skin: Wash affected areas with water.

5. FIRE-FIGHTING MEASURES

Extinguishing media: Those suitable for surrounding fire conditions.

Special exposure hazards: In the event of fire, the product may emit harmful or toxic fumes. As an oxidant it will also

assist ignition and combustion.

Protective personal equipment: Self contained breathing apparatus and protective clothing.

6. ACCIDENTAL RELEASE MEASURES

Leaks & Spills: Use suitable vacuum equipment where reasonably practicable. Otherwise, damp down and

scoop into a receptacle. Do not wash into water courses, sewers or drains.

Personal protective equipment: Respiratory protective equipment.

7. HANDLING AND STORAGE

Handling: Do not eat, drink, or smoke in areas where the material is used.

Wash thoroughly after handling the material.

Storage: Store in dry area. Do not use mild steel containers.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering controls: Adequate ventilation should be provided so that Occupational Exposure Limits are not

exceeded. Local Exhaust Ventilation is normally recommended.

Personal protective equipment: Where LEV is not practicable and exposure is likely to be excessive, approved respiratory

protection to CEN standards prEN 140, 141, 143 or 149 should be worn. Protective gloves

and overalls are recommended for prolonged contact.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:

Form: powder red brown Colour: Odour: odourless

Flash point (°C): N/A

Flammability: N/A

Explosive properties: Non-explosive Oxidising properties: Mildly oxidising

Specific gravity: 3 - 5

7 (insoluble in water) pH value:

Melting point (°C): Not available

10. STABILTY AND REACTIVITY

Chemical stability: The material is stable

Conditions/materials to avoid: An easily oxidised material

Hazardous decomposition products: None known

Hazardous polymerization products: None

11. TOXICOLOGICAL INFORMATION

Acute toxicology: LD50 Oral: <2000mg/kg and >200mg/kg

LD50 Dermal: Not known LD50 Inhalation: Not known

Health effects: Prolonged or repeated exposure above Occupational Exposure Standards may

cause fibrosis of the lungs and damage to the central nervous system, resulting in

headaches, dizziness, apathy, weight loss and loss of appetite. (refer to section 3)

12. ECOLOGICAL INFORMATION

Ecotoxicity: Not known.

Persistence: The product is chemically stable and will persist in the environment.

13. DISPOSAL CONSIDERATIONS

Dispose in accordance with current waste disposal regulations (for UK – Control of Pollution (Special Waste) Regulations 1980). Landfill is the most appropriate method.

14. TRANSPORT INFORMATION

UN/SI No. Not classified UN Class Not classified Packing Group Not classified Road UK Not classified ADR Not classified Sea IMO Not classified Air Not classified

ICAO

15. REGULATORY INFORMATION

EC Supply Labelling: Harmful

R-Phrases: R20/22 harmful by inhalation and if swallowed.

S-Phrases: S20/21 when using do not eat, drink or smoke.

S22/23 do not breathe dust or spray. S25 avoid contact with the eyes.

UK Occupational exposures limits*: Mg/m³ 8 hr TWA % in product.

Manganese compounds (as M) 5 48-54

In accordance with HSE Approved Code of Practice for CHIP, the recipient is reminded of their obligations under both the Health and Safety at Work Act (HSWA) and the Control of Substances Hazardous to Health Regulations (COSHH), and that the information in any safety data sheet does not constitute the user's assessment of workplace risk.

16. OTHER INFORMATION

References:

COSHH ACOP HSC approved Code of Practice for the Control of Substances Hazardous to Health Regulations 1994

CHIP 96 Chemicals (Hazard Information and Packaging for Supply) Regulations 1996

CHIP SDS ACOPS HSC Approved Code of Practice for Safety Data Sheets in accordance with regulation 6 of the CHIP

regulations.

HSE EH40 HSE Guidance note EH40 on Occupational Exposure Limits to be used in conjunction with the COSH

regulations.

Further information:

Data sheet producing department: CTM Potters Supplies

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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.

^{*}Refer to HSE Guidance note EH40