CTM POTTERS SUPPLIES

SAFETY DATA SHEET

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

Product information:

Product Name : Manganese Carbonate

Chemical Name : Manganese Carbonate

Synonyms : None

Company : CTM Potters Supplies
Unit 10A, Millpark Industrial Estate
White Cross Road
Woodbury Salterton
Nr. Exeter
EX5 1EL

Telephone : 01395-233-077

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2. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients	CAS Number	EC Number	% of composition
Manganese carbonate ($MnCO_3$)	598-62-9	2099429	>90 & the rest is combined water, free water and impurities of no significant hazard.

3. HAZARD IDENTIFICATION

Inhalation: Excessive exposure may cause irritation of respiratory system. Symptoms include dry throat, shallow breathing, headache, irritability, dyspnea and fever similar to metal fume fever. Symptoms of prolonged or repeated exposure are systemic effects, including damage to the central nervous system, muscular spasm, slow spasmodic gait, postural instability and unbalance and diminished mental ability.

Ingestion: May cause gastro intestinal upsets, nausea and vomiting. Symptoms of prolonged or repeated exposure are system effects such as diminished mental ability.

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. May cause sensitisation.

4. FIRST AID MEASURES

General Recommendations:

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

Ingestion: Do not induce vomiting. If conscious get the victim to rinse mouth with water and then drink lots of water, seek medical attention.

Eyes: Wash immediately with copious amounts of water.

Skin: Wash affected areas with water and soap; remove contaminated clothing.

5. FIRE-FIGHTING MEASURES

Extinguishing media: Those suitable for surrounding fire conditions.

Special exposure hazards: In the event of a fire the product may emit harmful or toxic fume. Refer to sections 9.

Protective personal equipment: Self contained breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES

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

Personal protective equipment: Respiratory protective equipment, rubber gloves.

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 a secure container.

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
Colour:	pink white which turns pale brown on exposure to air
Odour:	odourless
Flash point (^{0}C):	N/A
Flammability:	N/A
Explosive properties:	Non-explosive
Oxidising properties:	Yes, due to Mn_2 -> Mn_4
Specific gravity:	3.1
pH value:	7 (barely soluble in water)
Melting point (^{0}C):	Decomposes above 600^{o}C, emitting Co and CO_2

10. STABILTY AND REACTIVITY

Chemical stability: The material is stable

Conditions/materials to avoid: It dissolves in acids, emitting CO_2

Hazardous decomposition products: CO and CO_2

Hazardous polymerization products: None

11. TOXICOLOGICAL INFORMATION

Acute toxicology:

LD50 Oral:	Not known
LD50 Dermal:	Not known
LD50 inhalation:	Not known

Health effects: See section 3 and 15.

12. ECOLOGICAL INFORMATION

Ecotoxicity: Not known.

Persistence: The manganese 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 restricted
UN Class		Not restricted
Packing Group		Not restricted
Road	UK	Not restricted
	ADR	Not restricted
Sea	IMO	Not restricted
Air		Not restricted
	ICAO	

15. REGULATORY INFORMATION

EC Supply Labelling: Harmful

R-Phrases:

R20/22	harmful by inhalation and if swallowed.
R43	may cause sensitisation by skin contact.

S-Phrases:

S13	keep away from food, drink and animal feeding stuff.
S20/21	when using do not eat, drink or smoke.
S22/23	do not breathe dust or spray.

UK Occupational exposures limits*:	Mg/m^3	8 hr TWA	% in product.
Manganese compounds (as M_n)	5		43%

*Refer to HSE Guidance note EH40

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.