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SAFETY DATA SHEET

5574	MANGANESE CARBONATE
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1. Identification of substance/preparation and of the company undertaking	
Trade Name:	Manganese Carbonate
Chemical Name:	Manganese Carbonate
Synonyms:	None

2. Composition /information on ingredients			
Component	CAS	EINECS	% 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. Hazards Identification	
Inhalation	Excessive exposure may cause irritation of the respiratory system. Symptoms include dry throat, shallow breathing, headache, irritability, dyspnoea 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	Mays cause gastrointestinal 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	
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 and then drink lots of water. Seek medical advice.
Eyes	Wash immediately with copious amounts of water.
Skin	Wash affected area with water and soap; remove contaminated clothing.



5. Fire Fighting Hazards	
Extinguishing Media	Suitable for surrounding fire conditions.
Special Exposure hazard	In the event of fire, the product may emit harmful or toxic fumes. Refer to section 9.
Personal protective equipment	Self contained breathing apparatus.

6. Accidental Release Measure	
Leaks and 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 & 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 Control/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 & Chemical Properties	
Appearance and Odour	Pink white powder which turns pale brown on exposure to air. Odourless
Flash point (°C)	Not applicable
Flammability	Not applicable
Explosive properties	Non-explosive
Oxidising properties	Yes, due to $Mn_2 \rightarrow Mn_4$
Specific Gravity	3.1
pH value	7 (barely soluble in water)
Melting point (°C)	Decomposes above 600°C, emitting Co and CO ₂

10. Stability & 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 Sections 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 classified	
UN Class	Not classified	
Packing group	Not classified	
Road	UK	Not classified
	ADR	Not classified
Sea	IMO	Not classified
Air	ICAO	Not classified

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 stuffs.	
	S20/21	When using do not eat, drink or smoke.	
	S22/23	Do not breathe dust or spray	
UK Occupational exposures limits (Refer to HSE Guidance note EH40)	Mg/m ³	8 hr TWA	% in product
Manganese compounds (as M _n)		5	43%
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 (Hazardous 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 COSHH regulations.