

MANGANESE DIOXIDE SAFETY DATA SHEET

1. IDENTIFICATION OF THE SUBSTANCE

Manganese Dioxide

2. HAZARD IDENTIFICATION

Classification (1999/45)	Xn;R20/22	Not classified
Classification (EC 1272/2008)	Physical Health Environmental	Acute Tox. 4 – H302; Acute Tox. 4 – H332 Not Classified
Label in Accordance with (EC) NO. 1272/2008		



Signal Word	Warning	
Contains	Manganese Dioxide	
Hazard Statement	H392 H332	Harmful if swallowed Harmful if inhaled
Precautionary Statements	P271 P261 P264 P270 P301/312 P304/340 P330	Use only outdoors or in a well ventilated area Avoid breathing dust/fume/gas/mist/vapours/spray Wash thoroughly after handling Do not eat, drink or smoke when using this product If swallowed call a doctor/physician if you feel unwell If inhaled remove victim to fresh air and keep at rest Rinse Mouth

3. COMPOSITION/INFORMATION ON INGREDIENTS

Manganese Dioxide CAS-No: 1313-13-9	EC No: 215-202-6	55-85%
Classification (EC 1272/2008) Acute Tox. 4 – H302 Acute Tox. 4 – H332		Classification (67/548) Xn;R20/22
Silica Flour (respirable crystalline silica) CAS-No: 14808-60-7	EC No: 238-878-4	1-5%
Classification (EC 1272/2008) STOT Rep. 2-H373		Classification (67/548)

The full text for all R Phrases and Hazard Statements are displayed in Section 16

4. FIRST-AID MEASURES

Inhalation	Moved exposed person to fresh air at once. Rinse nose and mouth with water. Get medical attention if any discomfort continues.
Ingestion	Immediately rinse mouth and provide fresh air. Consult a physician for specific advice.
Skin Contact	Remove contaminated clothing immediately and wash skin with soap and water. Consult a physician for specific advice.
Eye Contact	Make sure to remove any contact lenses from eyes before rinsing. Promptly wash eyes with plenty of water while lifting the eye lids. Continue to rinse for at least 15minutes. Obtain medical attention and bring these instructions.

5. FIRE FIGHTING MEASURES

This product is not flammable. Use fire-extinguishing media appropriate for surrounding materials.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions	Wear protective clothing as described in Section 8 of this safety data sheet.
Environmental Precautions	Collect and dispose of spillage as indicated in Section 13.
Spill Clean Up Methods	Avoid generation and spreading of dust. Shovel into dry containers. Cover and move the containers. Flush the area with water.

7. HANDLING AND STORAGE

Usage Precautions	Avoid spilling, skin and eye contact. Avoid handling which leads to dust formation
Storage Precautions	Store in tightly closed original container in a dry, cool and well ventilated place. Keep in original container.

8. EXPOSURE CONTROL/PERSONAL PROTECTION

NAME	Std	Twa- 8hrs	STEL- 15mins	Notes
Manganese Dioxide		0.5mg/m ³		
Silica Flour (respirable crystalline silica)		0.1mg/m ³ Resp.dust		
WEL = Workplace Exposure Limit				

Engineering Measures	Provide adequate ventilation. Observe occupational exposure limits and minimise the risk of inhalation of dust.
Respiratory Equipment	No specific recommendation made, but protection against nuisance dust must be used when the general level exceeds 10mg/m ³ .
Hand Protection	For prolonged or repeated skin contact use suitable protective gloves.
Eye Protection	Wear dust resistant safety goggles where there is danger of eye contact.
Hygiene Measures	Do not smoke in work area. Wash at the end of each work shift and before eating, smoking and using the toilet. Wash promptly if skin becomes contaminated. Promptly remove any clothing that becomes contaminated.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Granular Powder, dust
Colour	Brownish Buff
Odour	No characteristic odour
Solubility	Insoluble in water

10. STABILITY AND REACTIVITY

Stability	Stable under normal temperature conditions
Conditions to Avoid	Avoid excessive heat for prolonged periods of time
Hazardous Decomposition Products	No hazardous decomposition products

11. TOXICOLOGICAL INFORMATION

This material contains manganese compounds. Manganese may enter the body via the lungs or the digestive tract, the Pulmonary route being the most common and presents the greatest danger. Dust from the atmosphere or from contaminated hands may also enter the mouth and be swallowed. Absorbed manganese accumulates in the blood until a certain threshold value is exceeded after which further absorption leads to deposition in the majority of the body's organs and chronic manganese poisoning results. Chronic occupational poisoning affects the central nervous system. The initial stage of the disease is most difficult to detect but it is the most important as early removal from the source of exposure may arrest the course of the disease. Symptoms include loss of weight, loss of appetite, headaches, somnolence, indifference and apathy. Although manganese poisoning is a notifiable industrial disease affecting the central nervous system its occurrence is extremely rare and it is thought to arise only after ingestion of substantial quantities over prolonged periods.

Inhalation	Harmful by inhalation
Ingestion	Harmful if swallowed.
Skin Contact	Powder may irritate skin
Eye Contact	Partides in the eyes may cause irritation and smarting

12. ECOLOGICAL INFORMATION

Not regarded as dangerous for the environment

13. DISPOSAL CONSIDERATIONS

Waste is classified as hazardous waste. Disposal to licensed waste disposal site in accordance with the local Waste Disposal Authority.

14. TRANSPORT INFORMATION

This product is not classified as dangerous for conveyance.

15. REGULATORY INFORMATION

Approved Code of Practice	Safety Data Sheets and Preparations
Guidance Notes	Workplace Exposure Limits EH40

16. OTHER INFORMATION

Only trained personnel should use this material. The X within the Product No. signifies a trial product. Regardless of whether the Product No. contains an X or not, the information contained in this sheet is still valid.

Risk Phrases in Full	R20/22	Harmful by inhalation and if swallowed
	R48/20	Danger of serious damage to health by prolonged exposure through inhalation.
Hazard Statements in Full	H302	Harmful if swallowed
	H332	Harmful if inhaled
	H373	May cause damage to organs through prolonged or repeated exposure.

Whilst every effort has been made to be as accurate as possible, Irwins Quality Aggregates provides no warranty with respect to this information and disclaims all liability associated with its use.

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