

XI'AN FUNCTION MATERIAL GROUP CO., LTD Material Safety Data Sheet Manganese Oxide

1. Product and Company Identification		
Trade Name: Chemical Formula:	Manganese oxide Mn ₃ O ₄	
Manufacturer/Supplier:	XI'AN FUNCTION MATERIAL GROUP CO., LTD	
Street:	No. 69, Gazelle Valley, High-Tech Zone	
City:	XI'AN	
State:	Shaanxi	
Zip Code:	710077	
Country:	China	
Tel #:	+86-29-88993870/+86-13519132051	
	2. Hazards Identification	
Signal Word:	None	
Hazard Statements:	None	
Precautionary Statements:	None	
HMIS Health Ratings (0-4):		
Health:	0	
Flammability:	0	
Physical:	0	
	3. Composition	
Chemical Family:	Ceramic	
Additional Names:	Manganese(II,III) oxide	
Manganese oxide (Mn ₃ O ₄):		
Percentage:	100 wt%	
CAS #:	1317-35-7	
EC #:	215-266-5	
	4. First Aid Procedures	
General Treatment:	Seek medical attention if symptoms persist.	
Special Treatment:	None	
Important Symptoms:	None	
Inhalation:	Remove victim to fresh air. Supply oxygen if breathing is difficult.	
Ingestion:	Seek Medical Attention.	
Skin:	Wash affected area with mild soap and water. Remove any	
E.	contaminated clothing.	
Eyes:	Flush eyes with water, blinking often for several minutes. Remove	
	contact lenses if present and easy to do. Continue rinsing	

	5. Firefighting Measures
Flammability:	Non-flammable
Extinguishing Media:	No special restrictions – use suitable extinguishing agent for
Spec. Fire Fighting Procedure:	surrounding material and type of fire. Use full-face, self-contained breathing apparatus with full protective
spec. File Fighting Procedure.	clothing to prevent contact with skin and eyes. See section 10 for
	decomposition products.
	6. Accidental Release Measures
If Material Is Released/Spilled:	Wear appropriate respiratory and protective equipment specified in
	special protection information. Isolate spill area and provide
	ventilation. Vacuum up spill using a high efficiency particulate
	absolute (HEPA) air filter and place in a closed container for disposal.
Environmental Pressutions	Take care not to raise dust.
Environmental Precautions:	Isolate runoff to prevent environmental pollution.
	7. Handling and Storage
Handling Conditions:	Wash thoroughly after handling.
Storage Conditions:	Store in a cool dry place in a tightly sealed container. Store apart from
-	materials and conditions listed in section 10.
Work/Hygienic Maintenance:	Do not use tobacco or food in work area. Wash thoroughly before
	eating and smoking. Do not blow dust off clothing or skin with
	compressed air.
Ventilation:	Provide sufficient ventilation to maintain concentration at or below
	threshold limit.
8. Expo	osure Controls and Personal Protection
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Permissible Exposure Limits:	5 mg/m ³ as Mn, long-term value
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Permissible Exposure Limits: Threshold Limit Value: Special Equipment: Protective Gloves: Eye Protection: Body Protection: 9. Ph Color Form: Odor: Water Solubility:	5 mg/m ³ as Mn, long-term value 0.02 mg/m ³ as Mn, long-term value Use a respirator with type N95 (USA) or PE (EN 143) cartridges as a backup to engineering controls. Risk assessment should be performed to determine if purifying respirators are appropriate. Only use equipment tested and approved under appropriate government standards. Nitrile rubber, NBR 0.11mm thick. Safety glasses or goggles Protective work clothing. Wear close-toed shoes and long sleeves/pants.
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10. Reactivity		
Stability:	Stable under recommended storage conditions	
Reacts With:	Oxidizing agents	
Incompatible Conditions:	None	
Hazardous Decomposition Products:	Metal oxide fume	
 	11. Toxicological Information	
Potential Health Effects:		
Eyes:	May cause irritation	
Skin:	May cause irritation	
Ingestion:	May cause irritation	
Inhalation:	May cause irritation	
Chronic:	Chronic exposure to manganese may cause impairment to the central	
	nervous system. Symptoms include sluggishness, sleepiness, muscle	
	weakness, loss of facial muscle control, edema, emotional disturbances	
	spastic gait and falling.	
Signs & Symptoms:	N/A	
Aggravated Medical Conditions:	N/A	
Median Lethal Dose:	>2000 mg/kg for rat by mouth	
Carcinogen:	N/A	
	12. Ecological Information	
Aquatic Toxicity: Persistent Bioaccumulation Toxicity:	Low No	
Very Persistent, Very Bioaccumulative		
Notes:	N/A	
	13. Disposal Considerations	
Dispose of in accordance with local, state, n		
,,		
	14. Transportation Data	
Hazardous:	Not hazardous for transportation.	
Hazard Class:	N/A	
Packing Group:	N/A	
UN Number:	N/A	
Proper Shipping Name:	N/A	
	15. Regulatory Information	
Sec 302 Extremely Hazardous:	No	
Sec 304 Reportable Quantities:	N/A	
Sec 313 Toxic Chemicals:	Yes	

16. Other Information

This safety data sheet should be used in conjunction with technical sheets. It does not replace them. The information given is based on our knowledge of this product, at the time of publication. It is given in good faith. The attention of the user is drawn to the possible risks incurred by using the product for any other purpose other than that for which it was intended. This does not in any way excuse the user from knowing and applying all the regulations governing his activity. It is the sole responsibility of the user to take all precautions required in handling the product. The aim of the mandatory regulations mentioned is to help the user to fulfill his obligations regarding the use of hazardous products.

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