

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

1.	Product and Company Identification
Trade Name: Chemical Formula:	Manganese oxide MnO, MnO ₂ , Mn ₂ O ₃
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:	Warning
Hazard Statements:	H302+H332: Harmful if swallowed or if inhaled
Precautionary Statements:	P261: Avoid breathing dust/fume/gas/mist/vapours/spray P264: Wash thoroughly after handling P304+P340: IF INHALED: Remove victim to fresh air and keep at rest
	in a position comfortable for breathing P301+P312: IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell P501: Dispose of contents/container in accordance with local/regional/national/international regulations
HMIS Health Ratings (0-4): Health:	in a position comfortable for breathing P301+P312: IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell P501: Dispose of contents/container in accordance with
	in a position comfortable for breathing P301+P312: IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell P501: Dispose of contents/container in accordance with local/regional/national/international regulations

	3. Composition
Chemical Family:	Ceramic
Additional Names:	None
Manganasa avida (MnO):	
Manganese oxide (MnO):	100 wt%
Percentage:	
CAS #:	1344-43-0 NU
EC #:	NIL
Manganese oxide (MnO ₂):	
Percentage:	100 wt%
CAS #:	1313-13-9
EC #:	NIL
Manganese oxide (Mn ₂ O ₃):	
Percentage:	100 wt%
CAS #:	39432-47-8
EC #:	NIL
	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
	contaminated clothing.
Eyes:	Flush eyes with water, blinking often for several minutes. Remove
	contact lenses if present and easy to do. Continue rinsing
	conduct tenses if present and easy to do. Continue tinsing
	5. Firefighting Measures
Flammability:	Non-flammable
Extinguishing Media:	No special restrictions – use suitable extinguishing agent for
-	surrounding material and type of fire.
Spec. Fire Fighting Procedure:	Use full-face, self-contained breathing apparatus with full protective
	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 disposa
	Take care not to raise dust.
Environmental Precautions:	Isolate runoff to prevent environmental pollution.
Environmental i recautions.	isonate runom 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
X 7	compressed air.
Ventilation:	Provide sufficient ventilation to maintain concentration at or below threshold limit.
8. Ex	posure Controls and Personal Protection
Permissible Exposure Limits:	5 mg/m ³ as Mn, long-term value
Threshold Limit Value:	0.02 mg/m ³ as Mn, long-term value
Special Equipment:	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.
Protective Gloves:	Nitrile rubber, NBR 0.11mm thick.
Eye Protection:	Safety glasses or goggles
Body Protection:	Protective work clothing. Wear close-toed shoes and long
	sleeves/pants.
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9.1	Physical and Chemical Characteristics
Color	Black
Form:	Powder
Odor:	Odorless
Water Solubility:	Insoluble
Boiling Point:	N/A N/A
Melting Point: Flash Point:	N/A N/A
Autoignition Temperature:	N/A N/A
Density:	N/A N/A
Molecular weight:	N/A N/A
	10. Reactivity
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Stability:	Stable under recommended storage conditions
Reacts With:	Acids, Oxidizing agents
Incompatible Conditions:	None Matal anida forma
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 disturbance spastic gait and falling.

Signs & Symptoms:	N/A N/A
Aggravated Medical Conditions:	N/A
Median Lethal Dose:	3478 mg/kg for rat by mouth
Carcinogen:	N/A
	12. Ecological Information
Aquatic Toxicity:	Low
Persistent Bioaccumulation Toxicity:	No
Very Persistent, Very Bioaccumulative:	
Notes:	N/A
	13. Disposal Considerations
Dispose of in accordance with local, state, n	ational, and international regulations.
	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
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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.

Document Last Revised:

07/13/2017