

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

1. Product and Company Identification		
Trade Name: Chemical Formula:	Manganese antimonide Mn ₂ Sb	
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/vapor P264: Wash thoroughly after handling P304+P340: IF INHALED: Remove victim to fresh air and keep at res in a position comfortable for breathing P301+P312: IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell P312: 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:	2	
Flammability:	0	
Physical:	0	
	3. Composition	
Chemical Family:	Semimetallic alloy	
Additional Names:	None	
Manganese Antimonide (Mn ₂ Sb):		
Percentage:	100 wt%	
CAS #:	12032-97-2	
EC #:		

	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. Flush eyes with water, blinking often for several minutes. Remove
Eyes:	contact lenses if present and easy to do. Continue rinsing
	5. Firefighting Measures
Flammability:	Flammable
Extinguishing Media:	Do not use water for metal fires – use CO ₂ , sand, extinguishing powder
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 disposal.
Environmental Precautions:	Take care not to raise dust. Isolate runoff to prevent environmental pollution.
Environmental recautions.	Isolate fullor to prevent environmental ponution.
	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. E	Exposure Controls and Personal Protection
Permissible Exposure Limits:	0.2 mg/m ³ as Mn, long-term value
Threshold Limit Value:	0.5 mg/m ³ as Sb, long-term value
Special Equipment:	None
Respiratory Protection:	Dust Respirator
Protective Gloves:	Rubber gloves
Eye Protection:	Safety glasses or goggles
Body Protection:	Protective work clothing. Wear close-toed shoes and long sleeves/pants.
	sie ves pants.

9. Physical and Chemical Characteristics		
Color	Grey	
Form:	Powder, Granules, Pellets, Sputtering target, Custom parts	
Odor:	N/A	
Water Solubility:	Insoluble	
Boiling Point:	N/A	
Melting Point:	N/A	
Flash Point:	N/A	
Autoignition Temperature:	N/A	
Density:	N/A	
Molecular weight:	231.63 g/mol	
	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:	Causes irritating effect	
Skin:	Irritant to skin and mucous membranes	
Ingestion:	May cause irritation	
Inhalation:	May cause irritation	
Chronic:	Antimony compounds may cause metallic taste, gastrointestinal	
	disturbances, vomiting, diarrhea, dizziness, and systemic poisoning.	
-	Chronic exposure may cause liver and kidney damage. Dermatitis and	
	eczematous skin eruptions may result from skin contact.	
	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:	N/A	
Carcinogen:	N/A	
	12. Ecological Information	
Aquatic Toxicity:	High	
Persistent Bioaccumulation Toxicity:	No	
Very Persistent, Very Bioaccumulative:	No	
Notes:	Very toxic for aquatic organism.	
	May cause long lasting harmful effect on aquatic life.	
	Do not allow material to be released to the environment without proper	
	governmental permits.	
	Do not allow product to reach any water sources.	
	Danger to drinking water if even extremely small quantities leak into	
	the ground.	
	Also poisonous for fish and plankton in water bodies.	
	Avoid transfer into the environment.	
	Toxic to aquatic life.	

13. Disposal Considerations	sal Consider	rations
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14. Transportation Data		
Hazardous:	Hazardous for transportation POISON 6	
Hazard Class:	6.1Toxic substances	
Packing Group:	III	
UN Number:	UN1549	
Proper Shipping Name:	Antimony compounds, inorganic, solid, n.o.s. (Manganese antimonide)	
	15. Regulatory Information	
Sec 302 Extremely Hazardous:	No	
Sec 304 Reportable Quantities:	N/A	
Sec 313 Toxic Chemicals:	Yes	
	16. Other Information	

Dispose of in accordance with local, state, national, and international regulations.

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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