

## XI'AN FUNCTION MATERIAL GROUP CO., LTD Material Safety Data Sheet Zinc Sulfide Magnesium Fluoride

1. Product and Company Identification		
Trade Name:	Zinc sulfide - magnesium fluoride	
Chemical Formula:	ZnS-MgF <sub>2</sub>	
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:	H315 Causes skin irritation	
	H319 Causes serious eye irritation	
	H335 May cause respiratory irritation	
	H303 May be harmful if swallowed	
Precautionary Statements:	P261 Avoid breathing dust/fume/vapor	
	P305+P351+P338 If in eyes: rinse cautiously with water for several	
	minutes. Remove contact lenses, if present and easy to do. Continue	
	rinsing.	
	P302+P352 If on skin: wash with plenty of water	
HMIS Health Ratings (0-4):		
Health:	1	
Flammability:	0	
Physical:	1	
	3. Composition	
Chemical Family:	Salt	
Additional Names:	None	
Zinc Sulfide (ZnS):		
Percentage:	0-99 wt%	
CAS #:	1314-98-3	
EC #:	215-251-3	
Magnesium Fluoride (MgF <sub>2</sub> ):	0.00	
Percentage:	0-99 wt%	
CAS #:	7783-40-6	
EC #:	231-995-1	

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:	Give one to two glasses of water and induce vomiting. Never induce	
Skin:	vomiting or give anything by mouth to an unconscious person. 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	
	5. Firefighting Measures	
	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	
Environmental Precautions:	absolute (HEPA) air filter and place in a closed container for disposal Take care not to raise dust. 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 fron 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	
Ventilation:	compressed air. Provide sufficient ventilation to maintain concentration at or below threshold limit.	
8. Ex	posure Controls and Personal Protection	
Permissible Exposure Limits:	2.5 mg/m <sup>3</sup> as F	
Threshold Limit Value:	$2.5 \text{ mg/m}^3 \text{ as F}$	
	None	
Special Equipment:		
Respiratory Protection:	Dust Respirator	
Respiratory Protection: Protective Gloves:	Rubber gloves	
Respiratory Protection: Protective Gloves: Eye Protection:	Rubber gloves Safety glasses or goggles	
Respiratory Protection: Protective Gloves:	Rubber gloves	

9. Phy	viscal and Chemical Characteristics
Color	White to off-white
Form:	Powder, Granules, Pellets, Sputtering target, Custom parts
Odor:	Odorless
Water Solubility:	Low
Boiling Point:	N/A
Melting Point:	N/A
Flash Point:	N/A
Autoignition Temperature:	N/A
Density:	3-4 g/cc
Molecular weight:	N/A
	10. Reactivity
Stability:	Stable under recommended storage conditions
Reacts With:	Oxidizing agents, acids
Incompatible Conditions:	None
Hazardous Decomposition Products:	Metal oxide fume, Hydrogen fluoride
]	11. Toxicological Information
Potential Health Effects:	
Eyes:	May cause irritation
Skin:	Causes serious irritation
Ingestion:	Contact with acids liberates toxic gas
Inhalation:	May cause irritation
Chronic:	Zinc-containing fumes may cause metal fume fever. Sulfides may
	cause irritation to skin, corrosive by ingestion. Hydrogen sulfide, if
	generated, is toxic, a severe irritant and flammable. Effects include
	conjunctivitis, headache, nausea, dizziness, coughing, pulmonery
	edema and leading to death.
Signs & Symptoms:	N/A
Aggravated Medical Conditions:	N/A
Median Lethal Dose:	>2000 mg/kg for rat by mouth
Carcinogen:	EPA-I: Data are inadequate for an assessment of human carcinogenia
-	potential.
	EPA-II: Inadequate information to access carcinogenic potential.
	EPA-D: Not classifiable as to human carcinogenicity: inadequate
	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, national, and international regulations.

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 (Zinc Sulfide)	

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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