

XI'AN FUNCTION MATERIAL GROUP CO., LTD Material Safety Data Sheet Bismuth Sulfide

1. Product and Company Identification		
Trade Name: Chemical Formula:	Bismuth sulfide Bi ₂ S 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:	H315 Causes skin irritation.	
	H319 Causes serious eye irritation.	
	H335: May cause respiratory irritation	
Precautionary Statements:	P261 Avoid breathing dust/fume/gas/mist/vapours/spray.	
	P280: Wear protective gloves/protective clothing/eye protection/face	
	protection	
	P305+P351+P338 IF IN EYES: Rinse cautiously with water for severa	
	minutes. Remove contact lenses, if present and easy to do. Continue rinsing.	
	P304+P340: IF INHALED: Remove victim to fresh air and keep at res	
	in a position comfortable for breathing	
	P405: Store locked up	
	P501: Dispose of contents/container in accordance with	
	local/regional/national/international regulations	
HMIS Health Ratings (0-4):		
Health:	1	
Flammability:	0	
Physical:	1	
	3. Composition	
Chemical Family:	Ceramic	
Additional Names:	None	
Bismuth Sulfide (Bi ₂ S ₃):	100	
Percentage:	100 wt%	
CAS #:	1345-07-9	
EC #:	215-716-0	

	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
Eyes:	contaminated clothing. 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
	absolute (HEPA) air filter and place in a closed container for disposal. 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
ventilation.	threshold limit.
8	. Exposure Controls and Personal Protection
Permissible Exposure Limits:	N/A
Threshold Limit Value:	N/A
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.
	siceves/pants.

9. Physical and Chemical Characteristics			
Color	Brown		
Form:	Powder, Granules, Pellets, Sputtering target, Custom parts		
Odor:	Odorless		
Water Solubility:	Insoluble		
Boiling Point:	N/A		
Melting Point:	N/A		
Flash Point:	N/A		
Autoignition Temperature:	N/A		
Density:	7.7 g/cc		
Molecular weight:	514.16 g/mol		
	10. Reactivity		
Stability:	Stable under recommended storage conditions		
Reacts With:	Oxidizing agents		
Incompatible Conditions:	None		
Hazardous Decomposition Products:	Metal oxide fume, Sulfur oxides (SO _x) Hydrogen sulfide		
1	11. Toxicological Information		
Potential Health Effects:			
Eyes:	Causes serious eye damage		
Skin:	Causes skin irritation		
Ingestion:	May cause irritation		
Inhalation:	May cause irritation		
Chronic:	Bismuth and bismuth compounds are often poorly absorbed. Should		
	absorption occur, however, exposure may cause loss of appetite,		
	headache, skin rash, exodermatitis, kidney injury and jaundice.		
	Repeated or prolonged exposure may cause a bismuth line or black		
	spots on the gums, foul breath and salivation. Exposure to bismuth may		
	cause injury to the mouth, esophagus and stomach. Symptoms may		
	include loss of appetite, headache, skin rash, kidney damage and		
	jaundice		
	Jaunaree		
Signs & Symptoms:	N/A		
Aggravated Medical Conditions:	N/A N/A		
Median Lethal Dose:	5000 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, 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:	No	

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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