

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

1. Product and Company Identification Copper antimony sulfide Trade Name: Chemical Formula: Cu₃SbS₄ Manufacturer/Supplier: XI'AN FUNCTION MATERIAL GROUP CO., LTD No. 69, Gazelle Valley, High-Tech Zone Street: City: XI'AN State: Shaanxi 710077 Zip Code: Country: China Tel #: +86-29-88993870/+86-13519132051 2. Hazards Identification Signal Word: Danger Hazard Statements: H302: Harmful if swallowed H331: Toxic if inhaled P261 Avoid breathing dust/fume/vapor **Precautionary Statements:** P304+P340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing P311: Call a POISON CENTER or doctor/physician P301+P312: IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell P405: Store locked up P501: Dispose of contents/container in accordance with local/regional/national/international regulations HMIS Health Ratings (0-4): Health: 2 Flammability: 1 Physical: 1

3. Composition		
Chemical Family:	Ceramic	
Additional Names:	Famatinite	
Copper sulfides (CuS, Cu ₂ S):		
Percentage:	75 mol%	
CAS #:	1317-40-4	
EC #:	215-271-2	
Antimony sulfide (Sb_2S_3) :		
Percentage:	25 mol%	
CAS #:	1345-04-6	
EC #:	215-713-4	
	4. First Aid Procedures	
General Treatment:	Seek medical attention if symptoms persist.	
	None	
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	
<u> </u>	contact lenses if present and easy to do. Continue rinsing	
	contact fenses in present and easy to do. Continue mising	
	5. Firefighting Measures	
Flammability:	Somewhat 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	
spee. The Fighting Floedule.	 clothing to prevent contact with skin and eyes. See section 10 for 	
	decomposition products.	
	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	
Storage Conditions.	materials and conditions listed in section 10.	
Work/Hygienic Maintenance:	Do not use tobacco or food in work area. Wash thoroughly before	
work/ Hygienic Maintenance.		
	eating and smoking. Do not blow dust off clothing or skin with	
Vantilation	compressed air.	
Ventilation:	Provide sufficient ventilation to maintain concentration at or below	
	threshold limit.	

8. Expo	sure Controls and Personal Protection
Permissible Exposure Limits:	0.5 mg/m ³ as Sb, long-term value
Threshold Limit Value:	0.5 mg/m ³ as Sb, long-term value
Special Equipment:	None
Respiratory Protection:	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:	Rubber gloves
Eye Protection:	Safety glasses or goggles
Body Protection:	Protective work clothing. Wear close-toed shoes and long sleeves/pants.
9. Ph	ysical and Chemical Characteristics
Color	Dark grey
Form:	Sputtering target
Odor:	N/A
Water Solubility:	Insoluble
Boiling Point:	N/A
Melting Point:	N/A
Flash Point:	N/A
Autoignition Temperature:	N/A
Density:	4.57
Molecular weight:	440.66 g/mol
	10. Reactivity
Stability:	Stable under recommended storage conditions
Reacts With:	Oxidizing agents
Incompatible Conditions:	None
Hazardous Decomposition Products:	Metal oxide fume, Hydrogen sulfide, Sulfur dioxide, Copper oxides, Sulfur oxides (SOx)
	11. Toxicological Information
Potential Health Effects:	
Eyes:	Causes irritating effect
Skin:	Irritant to skin and mucous membranes
Ingestion:	Harmful if swallowed
Inhalation:	Harmful if inhaled
Chronic:	N/A
Signs & Symptoms:	N/A
Aggravated Medical Conditions:	N/A
	N/A
Median Lethal Dose:	

	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. Toxic to aquatic life
	13. Disposal Considerations
Dispose of in accordance with local, state,	national, and international regulations.
	14. Transportation Data
Hazardous:	Hazardous as powder and pieces
	POISON 6
Hazard Class:	6.1 Toxic substances
Packing Group:	III
UN Number:	UN1549
Proper Shipping Name:	Antimony compounds, inorganic, solid, n.o.s (Copper antimony
	sulfide)
RU'	15. Regulatory Information
Sec 302 Extremely Hazardous:	No
Sec 304 Reportable Quantities:	N/A
Sec 313 Toxic Chemicals:	Components
	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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