

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

1. Product and Company Identification		
Trade Name: Chemical Formula:	Gallium antimonide GaSb	
Manufacturer/Supplier:	XI'AN FUNCTION MATERIAL GROUP CO., LTD	
Street:	No. 69, Gazelle Valley, High-Tech Zone	
City:	XI'AN	
State:	Shaanxi 710077	
Zip Code:	710077 China	
Country: 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 ress 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:	3	
Flammability:	0	
Physical:	1	
	3. Composition	
Chemical Family:	Ceramic Callium (III) antimonida, callium monoantimonida	
Additional Names:	Gallium(III) antimonide, gallium monoantimonide	
Gallium antimonide (GaSb):		
Percentage:	100 wt%	
CAS #: EC #:	12064-03-8 235-058-8	

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:	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.	
	Take care not to raise dust.	
Environmental Precautions:	Isolate runoff to prevent environmental pollution.	
	7. Handling and Storage	
Handling Conditions: Storage Conditions:	Wash thoroughly after handling.	
	Store in a cool dry place in a tightly sealed container. Store apart from	
Work/Hygienic Maintenance:	materials and conditions listed in section 10. 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.	Exposure 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:	Dust Respirator	
Protective Gloves:	Rubber gloves	
Eye Protection: Body Protection:	Safety glasses or goggles Protective work electring. Wear close tead shees and long	
Body Protection:	Protective work clothing. Wear close-toed shoes and long sleeves/pants.	
	Steeres pants.	

Grey Granules, Pellets, Sputtering target, Custom parts Odorless	
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Odorless	
T 1 1.1.	
Insoluble	
N/A	
710 °C N/A N/A	
	N/A
	191.47 g/mol
10. Reactivity	
Stable under recommended storage conditions	
Bases, Oxidizing agents	
None	
Toxic metal oxide fume	
1. Toxicological Information	
Causes irritation	
Causes irritation	
Harmful	
Harmful	
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.	
N/A	
N/A	
N/A	
N/A	
12. Ecological Information	
High	
No	
No	
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.	
Do not allow undiluted product or large quantities to reach ground	
water, water course or sewage system.	
Avoid transfer into the environment.	
13. Disposal Considerations	

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

Hazardous:	Hazardous for transportation.
	POISON
Hazard Class:	6.1 Toxic substances
Packing Group:	III
UN Number:	UN1549
Proper Shipping Name:	Antimony compounds, inorganic, solid, n.o.s. (Gallium antimonide)
	15. Regulatory Information
Sec 302 Extremely Hazardous:	No
Sec 304 Reportable Quantities:	N/A
Sec 313 Toxic Chemicals:	Yes

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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