

## XI'AN FUNCTION MATERIAL GROUP CO., LTD

Material Safety Data Sheet Gallium Oxide – Tin Oxide

## 1. Product and Company Identification

Trade Name: Gallium oxide – Tin oxide

Chemical Formula: Ga<sub>2</sub>O<sub>3</sub>/SnO<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: H302: Harmful if swallowed

Precautionary Statements: P264: Wash thoroughly after handling

P270: Do not eat, drink or smoke when using this product P301+P312: IF SWALLOWED: Call a POISON CENTER or

doctor/physician if you feel unwell

P330: Rinse mouth

P501: Dispose of contents/container in accordance with

local/regional/national/international regulations

HMIS Health Ratings (0-4):

Health: 2 Flammability: 0 Physical: 1

## 3. Composition

Chemical Family: Ceramic Additional Names: None

Gallium Oxide (Ga<sub>2</sub>O<sub>3</sub>):

Percentage: 0-100 wt% CAS #: 12024-21-4 EC #: 234-691-7

Tin Oxide (SnO<sub>2</sub>):

Percentage: 0-100 wt% CAS #: 21651-19-4 EC #: 244-499-5 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.

Eyes: Flush eyes with water, blinking often for several minutes. Remove

contact lenses if present and easy to do. Continue rinsing

5. Firefighting Measures

Flammability: 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

threshold limit.

8. Exposure Controls and Personal Protection

Permissible Exposure Limits: 2 mg/m<sup>3</sup> as Sn, long-term value

Threshold Limit Value: 2 mg/m³ as Sn, 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: Nitrile Rubber, NBR gloves
Eye Protection: Safety glasses or goggles

Body Protection: Protective work clothing. Wear close-toed shoes and long

sleeves/pants.

9. Physical and Chemical Characteristics			
Color	White / Dark grey		
Form:	Powder, Granules, Pellets, Sputtering target, Custom parts		
Odor:	Odorless		
Water Solubility:	N/A		
Boiling Point: Melting Point: Flash Point: Autoignition Temperature: Density:	N/A N/A N/A N/A N/A		
		Molecular weight:	N/A
			10. Reactivity
		Stability:	Stable under recommended storage conditions
		Reacts With:	Acids, Oxidizing agents
Incompatible Conditions:	None		
Hazardous Decomposition Products:	Metal oxide fume		
Hazardous Decomposition Froducts:	Wietai oxide fume		
	11. Toxicological Information		
Potential Health Effects:			
Eyes:	May cause irritation		
Skin:	May cause irritation		
Ingestion:	May cause irritation		
Inhalation:	May cause irritation		
Chronic:	N/Å		
Signs & Symptoms:	N/A		
Aggravated Medical Conditions:	N/A		
Median Lethal Dose:	775 mg/kg for rat by mouth		
Carcinogen:	N/A		
	12. Ecological Information		
Aquatic Toxicity:	Low		
Persistent Bioaccumulation Toxicity:	No		
Very Persistent, Very Bioaccumulative:	No		
Notes:	N/A		
	13. Disposal Considerations		
Dispose of in accordance with local, state,	, national, and international regulations.		
	14. Transportation Data		
Hazardous:	Not hazardous for transportation.		
Hazard Class:	N/A		
Packing Group:	N/A		
	N/A N/A		
UN Number:			
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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