

XI'AN FUNCTION MATERIAL GROUP CO., LTD Material Safety Data Sheet Zinc Tin Oxide

1. Product and Company Identification

Trade Name: Zinc tin oxide Chemical Formula: ZnO-SnO₂

Recommended Use: Scientific research and development

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: None

Hazard Statements: H401: Toxic to aquatic life

Precautionary Statements: None

HMIS Health Ratings (0-4):

Health: 1
Flammability: 0
Reactivity: 0

3. Composition

Chemical Family: Ceramic

Additional Names: Zinc oxide-tin oxide, Zinc stannate

Zinc oxide (ZnO):

Percentage: 0-100 wt% CAS #: 1314-13-2 EC #: 215-222-5

Tin oxide (SnO₂):

Percentage: 0-100 wt% CAS #: 18282-10-5 EC #: 242-159-0

4. First Aid Procedures

General Treatment: Seek medical attention if symptoms persist.

Special Treatment: None Important Symptoms: None

Skin:

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

Give one to two glasses of water and induce vomiting. Never induce vomiting or give anything by mouth to an unconscious person.

Week effected area with wild some and water Deserve and

Wash affected area with mild soap and water. Remove any

contaminated clothing.

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

5. Fire and explosion hazards data

Flammability: Non-flammable

Flash Point: N/A
Autoignition Temperature: N/A

Extinguishing Media: 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.

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.

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

TLV.

8. Exposure Controls / Personal Protection

Permissible Exposure Limits: 5 mg/m³ as respirable fraction (USA)

Threshold Limit Value: 2 mg/m³ as long-term respirable fraction (USA)

Special Equipment: None

Respiratory Protection: Dust Respirator, NIOSH approved

Protective Gloves: Rubber gloves

Eye Protection: Safety glasses / goggles

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

sleeves/pants.

	9. Physical and Chemical Characteristics		
Color	White		
Form:	Powder, Granules, Pellets, Sputtering target, Custom parts		
Odor:	Odorless		
Water Solubility:	Insoluble		
Boiling Point:	N/A		
Melting Point:	≥1630 °C		
Density: Molecular weight:	5.5-7 g/cc N/A		
	10. Reactivity		
Stability:	Stable under recommended storage conditions		
Reacts With:	Strong oxidizing agents, Strong reducing agents		
Incompatible Conditions:	None		
Haz. Decomposition Products:	Metal oxide fume		
	11. Toxicological Information		
Potential Health Effects:			
Eyes:	May cause irritation		
Skin:	May cause irritation		
Ingestion:	Low toxicity		
Inhalation:	May cause irritation		
Details:	Metallic tin is relatively non-toxic. Exposure to dust or fumes of		
Details.			
	inorganic tin salts is known to cause benign inflammation of the lung		
	tissue, a condition in which there is no distinctive fibrosis, no sign of		
	disability, and no complicating factors.		
	Zinc compounds have variable low toxicity. Zinc is not inherently a		
	toxic element. However, when heated it evolves a fume of zinc oxide		
	which, when inhaled fresh can cause a disease known as "brass		
	founders" "ague", or brass chills". Zinc dust which is not freshly		
	formed is virtually innocuous. There is no cumulative effect from the		
	inhalation of zinc fumes.		
Routes of Entry:	None		
Target Organs:	N/A		
	N/A		
Signs & Symptoms of Exposure:	N/A		
Medical Conditions			
Aggravated by Exposure:	N/A		
Median Lethal Dose:	N/A		
Carcinogen:	Inadequate information		
	12. Ecological Information		
Ecological effects:	Danger to drinking water, even in small doses.		
	Poisonous to fish and aquatic life.		
	13. Disposal Considerations		

Dispose of in accordance with local, state and federal 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	

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.

Document Last Revised: 10/13/2019