XI'AN FUNCTION MATERIAL GROUP CO., LTD



Safety Data Sheet Barium Tin Oxide

1. Product and Company Identification

Trade Name: Barium tin oxide

Chemical Formula: BaSnO3

Recommended Use: Scientific research and development

Manufacturer/Supplier: XI'AN FUNCTION MATERIAL GROUP CO., LTD

Street: No. 69, Gazelle Valley, High-Tech Zone

City: XIAN
State: SHAANXI
Zip Code: 710077
Country: CHINA

Tel #: +86-29-88993870/+86-13519132051

2. Hazards Identification

Signal Word: Warning



Hazard Statements: H301 Toxic if swallowed.

H312 Harmful in contact with skin.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H331 Toxic if inhaled.

H335 May cause respiratory irritation.

Precautionary Statements:

P261 Avoid breathing dust/fume/gas/mist/vapors/spray.

P264 Wash skin thoroughly after handling.

P270 Do not eat, drink, or smoke when using this product.

P271 Use only outdoors or in a well-ventilated area.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P301+P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.

P302+P352 IF ON SKIN: wash with plenty of soap and water.

P304+P340 IF INHALED: Remove victim to fresh air and Keep at rest

in a position comfortable for breathing.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue

rinsing.

P332+P313 IF SKIN irritation occurs: Get medical advice/attention. P403+P233 Store in a well-ventilated place. Keep container tightly closed.

HMIS Health Ratings (0-4):

Health: 3
Flammability: 0
Physical: 0

3. Composition			
Chemical Family:	Ceramic		
Additional Names:	Barium stannate		
Barium tin oxide (BaSnO3):			
Percentage:	100 wt%		
CAS #:	12009-18-6		
EC #:	234-545-2		
	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:	Do not induce vomiting.		
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. 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:	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:	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.		
9. Pl	hysical and Chemical Characteristics		
Color	White		
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		
	N/A N/A		
Autoignition Temperature: Density:			
•	7.6 g/cc		
Molecular weight:	304.02 g/mol		
	10. Reactivity		
Stability:	Stable under recommended storage conditions		
Reacts With:	Oxidizing agents		
Incompatible Conditions:	None		
Hazardous Decomposition Products:	Barium fumes, tin fumes, metal 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:	N/A		
Carcinogen:	N/A		
	12. Ecological Information		
Aquatic Toxicity:	Low		
Aquatic Toxicity: 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: Hazardous for transportation.



Hazard Class: 6.1
Packing Group: PG II
UN Number: UN1564

Proper Shipping Name: Barium Compound, n.o.s. (Barium Tin Oxide)

15.	Regulatory Information	

Sec 302 Extremely Hazardous: No Sec 304 Reportable Quantities: No 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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