

## LTS Research Laboratories, Inc. 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:	LTS Research Laboratories, Inc.
Street:	37 Ramland Road
City:	Orangeburg
State:	New York
Zip Code:	10962
Country:	USA
Tel #:	855-587-2436 / 855-lts-chem
24-Hour Emergency Contact:	800-424-9300 (US & Canada)
	+1-703-527-3887 (International)
	2. Hazards Identification
Signal Word:	Warning
	esearch
II. 10	toratories, Inc.
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.
Haalth	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	
Contract Electric to Data and the sec	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	
<b>TT</b>	compressed air.	
Ventilation:	Provide sufficient ventilation to maintain concentration at or below	
· childron.	threshold limit.	

8. Exp	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	nysical 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		
Autoignition Temperature:	N/A N/A		
Density:	7.6 g/cc		
Molecular weight:	304.02 g/mol		
	504.02 g/moi		
	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/A		
Signs & Symptoms:	N/A		
Aggravated Medical Conditions:	N/A		
Median Lethal Dose:	N/A		
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:	Hazardous for transportation.	
	POISON	
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	

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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