

## LTS Research Laboratories, Inc. Safety Data Sheet Barium Oxide

	1. Product and Company Identification
Trade Name:	Barium Oxide
Chemical Formula:	BaO
Recommended Use:	Scientific research and development
Manufacturer/Supplier:	LTS Research Laboratories, Inc.
Street:	2001 Oaks Pkwy
City:	Belmont
State:	North Carolina
Zip Code:	28012
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:	Danger
Hazard Statements:	H301: Toxic if swallowed
nazaru Statements.	11JUL I UNIC II SWAIIUWCU
Hazaru Statements.	
nazaru Statements.	H314: Causes severe skin burns and eye damage H332: Harmful if inhaled
Precautionary Statements:	H314: Causes severe skin burns and eye damage
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HMIS Health Ratings (0-4):	
Health:	N/A
Flammability:	N/A
Physical:	N/A

3. Composition		
Chemical Family:	Ceramic	
Additional Names:	Barium monoxide, Barium protoxide, Calcined Baryta, Baria	
Barium oxide (BaO):		
Percentage:	100 wt%	
CAS #:	1304-28-5	
EC #:	215-127-9	
	4. First Aid Procedures	
General Treatment:	Seek medical attention if symptoms persist.	
Special Treatment:	None	
Important Symptoms:	N/A	
Inhalation:	Remove victim to fresh air. Supply oxygen if breathing is difficult. Seek medical attention.	
Ingestion:	Rinse mouth with water. Do not induce vomiting. Seek medical attention.	
Skin:	Wash affected area with mild soap and water. Remove any	
Skii.	contaminated clothing. Seek medical attention.	
Eyes:	Flush eyes with water, blinking often for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. Seek medical attention.	
	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 <sub>2</sub> , 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.	
	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. E>	xposure Controls and Personal Protection
Permissible Exposure Limits:	0.5 mg/m3 as Ba, long-term value
Threshold Limit Value:	0.5 mg/m3 as Ba, long-term value
Special Equipment:	None
Respiratory Protection:	Dust Respirator
Protective Gloves:	Rubber gloves
	Check gloves prior to each use
Eye Protection:	Safety glasses or goggles
Body Protection:	Protective work clothing. Wear close-toed shoes and long
	alegues/pents
	sleeves/pants.
9.	Physical and Chemical Characteristics
	Physical and Chemical Characteristics White
Color	Physical and Chemical Characteristics White
Color Form:	Physical and Chemical Characteristics White Powder, Granules, Pellets, Sputtering target, Custom parts Odorless
Color Form: Odor: Water Solubility:	Physical and Chemical Characteristics White Powder, Granules, Pellets, Sputtering target, Custom parts Odorless N/A
Color Form: Odor: Water Solubility: Boiling Point:	Physical and Chemical Characteristics White Powder, Granules, Pellets, Sputtering target, Custom parts Odorless N/A 2000 °C
Color Form: Odor: Water Solubility: Boiling Point: Melting Point:	Physical and Chemical Characteristics White Powder, Granules, Pellets, Sputtering target, Custom parts Odorless N/A 2000 °C 1920 °C
Color Form: Odor: Water Solubility: Boiling Point: Melting Point: Flash Point:	Physical and Chemical Characteristics White Powder, Granules, Pellets, Sputtering target, Custom parts Odorless N/A 2000 °C 1920 °C N/A
Color Form: Odor: Water Solubility: Boiling Point: Melting Point: Flash Point: Autoignition Temperature:	Physical and Chemical Characteristics White Powder, Granules, Pellets, Sputtering target, Custom parts Odorless N/A 2000 °C 1920 °C N/A N/A
Color Form: Odor: Water Solubility: Boiling Point: Melting Point: Flash Point: Autoignition Temperature: Density:	Physical and Chemical Characteristics White Powder, Granules, Pellets, Sputtering target, Custom parts Odorless N/A 2000 °C 1920 °C N/A N/A 5.72 g/cm <sup>3</sup>
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Color Form: Odor: Water Solubility: Boiling Point: Melting Point: Flash Point: Autoignition Temperature: Density: Molecular weight: Stability:	Physical and Chemical Characteristics White Powder, Granules, Pellets, Sputtering target, Custom parts Odorless N/A 2000 °C 1920 °C N/A N/A 5.72 g/cm <sup>3</sup> 153.34 g/mol 10. Reactivity Stable under recommended storage conditions Reducing Agent, Carbon dioxide (CO2), Acids, Acid chlorides, Acid
Color Form: Odor: Water Solubility: Boiling Point: Melting Point: Flash Point: Autoignition Temperature: Density: Molecular weight: Stability: Reacts With:	Physical and Chemical Characteristics White Powder, Granules, Pellets, Sputtering target, Custom parts Odorless N/A 2000 °C 1920 °C N/A N/A 5.72 g/cm <sup>3</sup> 153.34 g/mol 10. Reactivity Stable under recommended storage conditions Reducing Agent, Carbon dioxide (CO2), Acids, Acid chlorides, Acid anhydrides, Water, Hydrogensulfide
9. Color Form: Odor: Water Solubility: Boiling Point: Melting Point: Flash Point: Autoignition Temperature: Density: Molecular weight: Stability: Reacts With: Incompatible Conditions: Hazardous Decomposition Products:	Physical and Chemical Characteristics White Powder, Granules, Pellets, Sputtering target, Custom parts Odorless N/A 2000 °C 1920 °C N/A N/A 5.72 g/cm <sup>3</sup> 153.34 g/mol 10. Reactivity Stable under recommended storage conditions Reducing Agent, Carbon dioxide (CO2), Acids, Acid chlorides, Acid

## 11. Toxicological Information

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Potential Health Effects:	
Eyes:	Causes eye damage
Skin:	Causes severe skin burns
Ingestion:	Toxic if swallowed
Inhalation:	Harmful if inhaled
Chronic:	N/A
Signs & Symptoms:	N/A
Aggravated Medical Conditions:	N/A
Median Lethal Dose:	LD50 Oral - 100 mg/kg for rat by mouth
Carcinogen:	N/A
	12. Ecological Information
Aquatic Toxicity:	N/A
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.
-	to a star a los
	14. Transportation Data
Hazardous:	Hazardous for transportation <sup>a</sup>
	POISON 6
Hazard Class:	6.1 Toxic substances
Packing Group:	III
UN Number:	UN1884
Proper Shipping Name:	Barium oxide
	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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