

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

1. Product and Company Identification		
Trade Name:	Barium copper oxide	
Chemical Formula:	BaCuO ₂	
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	
Hazard Statements:	H302+H332: Harmful if swallowed or if inhaled	
Precautionary Statements:	P261 Avoid breathing dust/fume/vapor	
	P264: Wash thoroughly after handling	
	P304+P340: IF INHALED: Remove victim to fresh air and keep at rest	
	in a position comfortable for breathing	
	P301+P312: IF SWALLOWED: Call a POISON CENTER or	
	doctor/physician if you feel unwell	
	P312: Call a POISON CENTER or doctor/physician if you feel unwell	
	P501: Dispose of contents/container in accordance with	
	local/regional/national/international regulations	
HMIS Health Ratings (0-4):		
Health:	2	
Flammability:	0	
Physical:	0	
-		

3. Composition		
Chemical Family:	Ceramic	
Additional Names:	None	
Barium copper oxide (BaCuO ₂):		
Percentage:	100 wt%	
CAS #:	N/A	
EC #:	N/A	
	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.	
Eyes:	Flush eyes with water, blinking often for several minutes. Remove	
	contact lenses if present and easy to do. Continue rinsing	
	5. Firefighting Measures	
	Non-flammable	
Extinguishing Media:	No special restrictions – use suitable extinguishing agent for	
Contract Plant (in a Data of Land	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:	0.5 mg/m ³ as Ba, long-term value	
Threshold Limit Value:	0.5 mg/m^3 as Ba, long-term value	
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. Physical and Chemical Characteristics	
Color	Dark Brown/Black	
Form:	Powder, Granules, Pellets, Sputtering target, Custom parts	
Ddor:	Odorless	
Water Solubility:	N/A	
Boiling Point:	N/A	
Melting Point:	N/A	
Flash Point:	N/A	
Autoignition Temperature:	N/A	
Density:	N/A	
Molecular weight:	N/A	
	10. Reactivity	
Stability:	Stable under recommended storage conditions	
Reacts With:	Oxidizing agents, Metal powders, Alkali metals,	
	Aluminum/aluminum alloys, Magnesium/magnesium alloys	
ncompatible Conditions:	None	
Hazardous Decomposition Products:	Metal oxide fume, Barium oxide	

11. Toxicological Information

Potential Health Effects:			
Eyes:	Causes irritation		
Skin:	Causes irritation		
Ingestion:	Harmful		
Inhalation:	Harmful		
Chronic:	Barium compounds may cause severe gastroenteritis, including abdominal pain, vomiting and diarrhea, tremors, faintness, paralysis of the arms and legs, and slow or irregular heartbeat. Severe cases may produce collapse and death due to respiratory failure, soluble barium compounds are more likely to cause the effects than insoluble compounds. Inhalation of fumes may cause sore throat, coughing, labored breathing, and irritation of the respiratory tract as well as the above symptoms. Copper compounds may irritation to the skin, eyes and respiratory tract. They may cause metal fume fever, hemolysis of the red blood cells and injury to the liver, lungs, kidneys and pancreas. Ingestion may also cause vomiting, gastric pain, dizziness, anemia, cramps, convulsions, shock, coma and death.		
Signs & Symptoms: Aggravated Medical Conditions:	N/A N/A		
Median Lethal Dose:	470 mg/kg for rat by mouth as Copper oxide		
Carcinogen:	N/A		
L	12. Ecological Information		
Aquatic Toxicity:	Low		
Persistent Bioaccumulation Toxicity:	No		
Very Persistent, Very Bioaccumulative: Notes:	No N/A		
	13. Disposal Considerations		
Dispose of in accordance with local, state, 1	national, and international regulations.		
	14. Transportation Data		
Hazardous:	Hazardous Poison 6		
Hazard Class:	6.1 Toxic substances		
Packing Group:	III		
UN Number:	UN1564		
Proper Shipping Name:	Barium compounds, n.o.s. (Barium copper oxide)		
	15. Regulatory Information		
Sec 302 Extremely Hazardous:	No		
Sec 304 Reportable Quantities: Sec 313 Toxic Chemicals:	N/A Voc		
Set 515 TOXIC Chemicals:	Yes		

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.

Document Last Revised:

06/16/2015

