

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

	1. Product and Company Identification
Trade Name:	Barium Vanadium Oxide
Chemical Formula:	BaVO ₃
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
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Hazard Statements:	H302+H332: Harmful if swallowed or if inhaled
nazara Statements.	11502+11552. Hammar it swanowed of it initiated
Precautionary Statements:	P261: Avoid breathing dust/ fume dust/fume/gas/mist/vapors/spray
recutionary statements.	P264: Wash thoroughly after handling
	P281: Use personal protective equipment as required
	P304+P340: IF INHALED: Remove victim to fresh air and keep at res
	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:	1
Flammability:	0
Physical:	1
	3. Composition
	Ceramic
Chemical Family:	
Chemical Family: Additional Names:	Barium Vanadate
Additional Names: Barium Vanadium oxide (BaVO ₃):	Barium Vanadate
Additional Names: Barium Vanadium oxide (BaVO ₃): Percentage:	Barium Vanadate 100 wt.%
Additional Names: Barium Vanadium oxide (BaVO ₃):	Barium Vanadate

4. First Aid Procedures
Seek medical attention if symptoms persist.
None
None
Remove victim to fresh air. Supply oxygen if breathing is difficult.
Seek medical attention.
Wash affected area with mild soap and water.
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
No special restrictions – use suitable extinguishing agent for
surrounding material and type of fire.
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
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.
toratories, inc.
7. Handling and Storage
Wash thoroughly after handling.
Store in a cool dry place in a tightly sealed container. Store apart from
materials and conditions listed in section 10.
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.
Provide sufficient ventilation to maintain concentration at or below
threshold limit.
Exposure Controls and Personal Protection
0.5 mg/m ³ as Ba, long-term value
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None
Use a respirator with type P100 (USA) or P3 (EN 143) cartridges as a
backup to engineering controls. Risk assessment should be performed
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9. P	hysical and Chemical Characteristics		
Color	White		
Form:	Powder, Granules, Pellets, Sputtering target, Custom parts		
Odor:	N/A		
Water Solubility:	Insoluble		
Boiling Point:	N/A		
Melting Point:	N/A		
Flash Point:	N/A		
Autoignition Temperature:	N/A		
Density:	5.176 g/cc		
Molecular weight: 204.262 g/mole			
	10. Reactivity		
Stability:	Stable under recommended storage conditions		
Reacts with:	N/A		
Incompatible Conditions:	N/A		
Hazardous Decomposition Products:	Metal oxide fume		
	11. Toxicological Information		
Potential Health Effects:			
Eyes:	May cause irritation		
Skin:	May cause irritation		
Ingestion:	Harmful		
Inhalation:	Harmful		
Chronic:	May cause damage to organs through prolonged or repeated exposure		
Signs & Symptoms: Aggravated Medical Conditions:	N/A N/A		
Median Lethal Dose:	N/A		
Carcinogen:	 EPA-B2: Probable human carcinogen, sufficient evidence from animal studies; inadequate evidence or no data from epidemiologic studies. NTP-R: Reasonably anticipated to be a carcinogen: limited evidence from studies in humans or sufficient evidence from studies in experimental animals. ACGIH A3: Animal carcinogen: Agent is carcinogenic in experimental 		
	 animals at a relatively high dose, by routes of administration, at sites, of histologic types, or by mechanisms not considered relevant to worker exposure. Available epidemiologic studies do not confirm an increased risk of cancer in exposed humans. Available evidence suggest that the agent is not likely to cause cancer in humans except under uncommon or unlikely routes or levels of exposure. IARC-2A: Probably carcinogenic to humans: limited human evidence; sufficient evidence in experimental animals. 		
Reproductive toxicity:	May damage fertility or the unborn child.		
	12. Ecological Information		
Aquatic Toxicity: Persistent Bioaccumulation Toxicity: Very Persistent, Very Bioaccumulative: Notes:	N/A N/A N/A Very toxic for aquatic organisms May cause long lasting harmful effects to aquatic life Keep away from water sources Danger to drinking water if even extremely small quantities leak into the ground.		

Disposal Considerations	13.	Disposal	Consid	lerations
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tate, national, and international regulations.		
14. Transportation Data		
Hazardous as powder only. Poison 6		
6.1 Toxic substances II UN1564 Barium compounds, n.o.s. (Barium Vanadium Oxide)		
15. Regulatory Information		
No N/A Yes as Vanadium Oxide, Barium Oxide		
16. Other Information		
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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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