LTS Research Laboretories, inc.
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## LTS Research Laboratories, Inc. Safety Data Sheet Strontium Boride

1. Product and Company Identification
Strontium Boride
SrB <sub>6</sub>
Scientific research and development
LTS Research Laboratories, Inc.
2001 Oaks Pkwy
Belmont
North Carolina
28012
USA
855-587-2436 / 855-lts-chem
800-424-9300 (US & Canada)
+1-703-527-3887 (International)
2. Hazards Identification
Warning
H317: May cause an allergic skin reaction H320: Causes eye irritation H333: May be harmful if inhaled
H335: May cause respiratory irritation
None
0
0
0

3. Composition			
Chemical Family:	Ceramic		
Additional Names:	None		
Strontium Hexaboride (SrB <sub>6</sub> )			
Percentage:	100 wt%		
CAS #:	12046-54-7		
EC #:	234-969-8		

	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 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 medica attention.		
	5. Firefighting Measures		
Flammability:	Non-flammable, except as powder		
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.		
	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 Check gloves prior to each use		
Eye Protection:	Safety glasses or goggles		
Body Protection:	Protective work clothing. Wear close-toed shoes and long sleeves/pants.		

9. P	Physical and Chemical Characteristics
Color	Black Crystalline
Form:	Powder, Granules, Pellets, Sputtering target, Custom parts
Odor:	N/A
Water Solubility:	Insoluble
Boiling Point:	N/A
Melting Point:	2235 °C
Flash Point:	N/A
Autoignition Temperature:	N/A
Density:	$3.39 \text{ g/cm}^3$
Molecular weight:	152.49 g/mol
	10. Reactivity
Stability:	Stable under recommended storage conditions
Reacts With:	Oxidizing agents
Incompatible Conditions:	None
Hazardous Decomposition Products:	Borane/boron oxides, Strontium oxides
	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
	L C - A Research
Signs & Symptoms:	N/A hostories, Inc.
Aggravated Medical Conditions:	N/A
Median Lethal Dose:	N/A
Carcinogen:	N/A
	12. Ecological Information
Aquatic Toxicity:	N/A
Persistent Bioaccumulation Toxicity:	N/A
Very Persistent, Very Bioaccumulative:	N/A
Notes:	N/A
	13. Disposal Considerations

14. Transportation Data			
Hazardous:	Not hazardous for transportation		
Hazard Class:	N/A		
Packing Group:	N/A		
UN Number:	N/A		
Proper Shipping Name:	N/A		

	15. Regulatory Information	
Sec 302 Extremely Hazardous:	No	
Sec 304 Reportable Quantities:	N/A	
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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