

LTS Research Laboratories, Inc. Safety Data Sheet Silicon Boride

1. Product and Company Identification

Trade Name: Silicon boride

Chemical Formula: SiB₄

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: H315 Causes skin irritation.

H319 Causes serious eye irritation. H335: May cause respiratory irritation

Precautionary Statements: P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

P264: Wash thoroughly after handling

P271: Use only outdoors or in a well-ventilated area

P280: Wear protective gloves/protective clothing/eye protection/face

protection

P302+P352: IF ON SKIN: Wash with soap and water

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue

rinsing.

P304+P340: IF INHALED: Remove victim to fresh air and keep at rest

in a position comfortable for breathing

P312: Call a POISON CENTER or doctor/physician if you feel unwell

P321: Specific treatment (see on this label)

P332+P313: If skin irritation occurs: Get medical advice/attention P337+P313: If eye irritation persists get medical advice/attention P362: Take off contaminated clothing and wash before reuse P403+P233: Store in a well ventilated place. Keep container tightly

closed

P405: Store locked up

P501: Dispose of contents/container in accordance with

local/regional/national/international regulations

HMIS Health Ratings (0-4):

Health: 1 Flammability: 0 Physical: 1

2 Commanition				
	3. Composition			
Chemical Family:	Ceramic			
Additional Names:	Silicon tetraboride			
Silicon boride (SiB ₄):				
Percentage:	100 wt%			
CAS #:	12007-81-7			
EC #:	234-518-5			
	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. 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.			
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: N/A Threshold Limit Value: N/A Special Equipment: None **Respiratory Protection:** Use a respirator with type N95 (USA) or PE (EN 143) cartridges as a backup to engineering controls. Risk assessment should be performed to determine if purifying respirators are appropriate. Only use equipment tested and approved under appropriate government standards. Protective Gloves: Nitrile rubber, NBR 0.11mm thick 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 Black Form: Powder Odor: **Odorless** Water Solubility: Insoluble **Boiling Point:** N/A Melting Point: N/A Flash Point: N/A Autoignition Temperature: N/A 2.4 g/cc Density: Molecular weight: N/A 10. Reactivity Stable under recommended storage conditions Stability: Oxidizing agents Reacts With: **Incompatible Conditions:** None Hazardous Decomposition Products: Metal oxide fume 11. Toxicological Information

Potential Health Effects:

Eyes:May cause irritationSkin:May cause irritationIngestion:May cause irritationInhalation: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	13.	Disposal	Consid	lerations
-----------------------------	-----	----------	--------	-----------

Dispose of in accordance with local, state, national, and international regulations.

14.	Trans	portation	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.

Document Last Revised: 07/14/2015