

LTS Research Laboratories, Inc. Safety Data Sheet Boron Carbide

1. Product and Company Identification		
Trade Name:	Boron carbide	
Chemical Formula:	B_4C	
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:	Warning	
	esearch	
	la la constantes, inc.	
Hazard Statements:	H315: Causes skin irritation	
	H319: Causes serious eye irritation	
	H335: May cause respiratory irritation	
	H332: Harmful if inhaled	
Precautionary Statements:	P261: Avoid breathing dust/fume/gas/mist/vapours/spray	
recautionary statements.	P264: Wash face, hands, and any exposed skin thoroughly after	
	handling	
	· · · · · · · · · · · · · · · · · · ·	
	P271: Use only outdoors or in a well-ventilated area	
	P280: Wear protective gloves/protective clothing/eye protection/face	
	protection P202 P250, IF ON SKIN, Conthe week with plants of soon and water	
	P302+P350: IF ON SKIN: Gently wash with plenty of soap and water	
	P305+P351+P338 IF IN EYES: Rinse cautiously with water for sever minutes. Remove contact lenses, if present and easy to do. Continue	
	rinsing. P204 P240 P212; IE INITALED: Remove victim to freeh air and kee	
	P304+P340+P312: IF INHALED: Remove victim to fresh air and kee	
	at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell	
	P332+P313: If skin irritation occurs: Get medical advice/attention	
	P352+P315: If skill initiation occurs: Get medical advice/attention P362: Take off contaminated clothing and wash before reuse	
	P337+P313: If eye irritation persists: Get medical advice/attention	
	P403+P233: Store in a well-ventilated place. Keep container tightly	
	closed P405: Store locked up	
	P405: Store locked up P501: Dispose of contents/container in accordance with	
	P501: Dispose of contents/container in accordance with local/regional/national/international regulations	
HMIS Health Ratings (0-4):	rocal regional national merinational regulations	
Health:	1	
Flammability:	1	
Physical:	1	
i nysicai.	•	

3. Composition		
Ceramic		
None		
100 wt%		
12069-32-8		
235-111-5		
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. Remove any		
contaminated clothing.		
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, except as powder		
Do not use water for metal fires – use CO ₂ , sand, extinguishing powder		
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.		
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.		

8. Exp	osure 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
Eye Protection:	Safety glasses or goggles
Body Protection:	Protective work clothing. Wear close-toed shoes and long
body Hotection.	sleeves/pants.
9. P	hysical and Chemical Characteristics
Color	Black
Form:	Powder, Granules, Pellets, Sputtering target, Custom parts
Odor:	Odorless
Water Solubility:	Insoluble
Boiling Point:	>2500
Melting Point:	2350 °C
Flash Point:	N/A
Autoignition Temperature:	N/A
Density:	2.51 g/cc
Molecular weight:	55.25 g/mol
	10. Reactivity
	State and a state of the state
Stability:	Stable under recommended storage conditions
Reacts With:	Oxidizing agents
Incompatible Conditions:	None None Nonetories, Inc.
Hazardous Decomposition Products:	Carbon monoxide, Carbon dioxide
	11. Toxicological Information
Potential Health Effects:	
Eyes:	Causes serious eye irritation
Skin:	Causes skin irritation
Ingestion:	May cause irritation
Inhalation:	May cause irritation
Chronic:	Boron affects the central nervous system. Boron poisoning causes
	depression of the circulation, persistent vomiting and diarrhea,
	followed by profound shock and coma. The temperature may become
	subnormal and a scarletina form rash may cover the entire body.
Signs & Symptoms:	N/A
Signs & Symptoms: Aggravated Medical Conditions:	
	N/A
Aggravated Medical Conditions: Median Lethal Dose:	N/A N/A
Aggravated Medical Conditions:	N/A N/A 2,000 mg/kg for rat by mouth
Aggravated Medical Conditions: Median Lethal Dose: Carcinogen:	N/A N/A 2,000 mg/kg for rat by mouth N/A
Aggravated Medical Conditions: Median Lethal Dose: Carcinogen: Aquatic Toxicity:	N/A N/A 2,000 mg/kg for rat by mouth N/A 12. Ecological Information Low
Aggravated Medical Conditions: Median Lethal Dose: Carcinogen:	N/A N/A 2,000 mg/kg for rat by mouth N/A 12. Ecological Information

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		

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

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:

07/28/2023 Research atorias, Inc.