

XI'AN FUNCTION MATERIAL GROUP CO., LTD Material Safety Data Sheet

Barium Boride

	1. Product and Company Identification
Trade Name:	Barium Boride
Chemical Formula:	BaB ₆
Recommended Use:	Scientific research and development
Manufacturer/Supplier:	XI'AN FUNCTION MATERIAL GROUP CO., LTD
Street:	No. 69, Gazelle Valley, High-Tech Zone
City:	XI'AN
State:	Shannxi
Zip Code:	710077
Country:	China
Tel #:	+86-29-88993870/+86-13519132051
	2. Hazards Identification
Signal Word:	Warning
Hazard Statements: Precautionary Statements:	H302+H332: Harmful if swallowed or if inhaled P261 Avoid breathing dust/fume/vapor/spray P264 Wash thoroughly after handling P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a maximum comfortable for breathing
	P261 Avoid breathing dust/fume/vapor/spray 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/doctor if you feel unwell. P501: Dispose of contents/container in accordance with
Precautionary Statements:	P261 Avoid breathing dust/fume/vapor/spray 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/doctor if you feel unwell.
Precautionary Statements: HMIS Health Ratings (0-4):	 P261 Avoid breathing dust/fume/vapor/spray 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/doctor if you feel unwell. P501: Dispose of contents/container in accordance with local/regional/national/international regulations
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Precautionary Statements: HMIS Health Ratings (0-4): Health: Flammability: Physical: Chemical Family: Additional Names: Barium Boride (BaB6):	P261 Avoid breathing dust/fume/vapor/spray 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/doctor if you feel unwell. P501: Dispose of contents/container in accordance with local/regional/national/international regulations 2 0 0 3. Composition Ceramic Barium Hexaboride
Precautionary Statements: HMIS Health Ratings (0-4): Health: Flammability: Physical: Chemical Family: Additional Names: Barium Boride (BaB6): Percentage:	P261 Avoid breathing dust/fume/vapor/spray 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/doctor if you feel unwell. P501: Dispose of contents/container in accordance with local/regional/national/international regulations 2 0 0 3. Composition Ceramic Barium Hexaboride 100 wt%
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9. Physical and Chemical Characteristics		
Color	Black	
Form:	Powder, Granules, Pellets, Sputtering target, Custom parts	
Odor:	Odorless	
Water Solubility:	Insoluble	
Boiling Point:	N/A	
Melting Point:	2270 °C	
Flash Point:	N/A	
Autoignition Temperature:	N/A	
Density:	4.36 g/cm ³	
Molecular weight:	201.21 g/mol	
	10. Reactivity	
Stability:	Stable under recommended storage conditions	
Reacts With:	Oxidizing agents	
Incompatible Conditions:	Oxidizing agents	
Hazardous Decomposition Products:	Barium Oxide	
	11. Toxicological Information	
Potential Health Effects:		
Eyes:	Irritating effect	
Skin:	Irritant to skin and mucous membranes	
Ingestion:	Harmful is swallowed	
Inhalation:	Harmful if inhaled	
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 these affects than insoluble compounds. Inhalation of fumes may cause sore throat, coughing, labored breathing, and irritation of the respiratory tract as well as above symptoms.	
	Boron affects the central nervous system. Boron poisoning causes depression of the circulation, persistence vomiting and diarrhea, followed by profound shock and coma. The temperature may become subnormal and a scarlatina form rash may cover the entire body.	
Signs & Symptoms:	N/A	
Median Lethal Dose:	N/A mg/kg for rat by mouth	
Carcinogen:	EPA-D: Not classifiable as to human carcinogenicity: inadequate human and animal evidence of carcinogenicity or no data are available. ACGIH A4: Not classifiable as a human carcinogen: Inadequate data on which to classify the agent in terms of its carcinogenicity in humans and/or animals.	
	12. Ecological Information	
Aquatic Toxicity: Persistent Bioaccumulation Toxicity: Very Persistent, Very Bioaccumulative: Notes:	N/A N/A N/A Do not allow material to be released to the environment without proper governmental permits. Do not allow undiluted product or large quantities to reach ground water, water course or sewage system.	

	13. Disposal Considerations	
Dispose of in accordance with local, state, national, and international regulations.		
	14. Transportation Data	
Hazardous:	Hazardous for transportation	
	POISON 6	
Hazard Class:	6.1 Toxic Substances	
Packing Group: UN Number:		
Proper Shipping Name:	UN1564 N/A	
	15. Regulatory Information	
Sec 302 Extremely Hazardous:	N/A	
Sec 304 Reportable Quantities:	N/A	
Sec 313 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:

07/14/2016