

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

Cobalt Boride

1. Product and Company Identification		
Trade Name:	Cobalt boride	
Chemical Formula:	Co ₂ B	
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:	H317 May cause allergic skin reaction H350 May cause cancer	
	H350 May cause cancer	
Hazard Statements: Precautionary Statements:	H350 May cause cancer P261 Avoid breathing dust/fume/vapor P280 Wear protective gloves/clothing/face protection P363 Wash contaminated clothing before reuse P405: Store locked up P501: Dispose of contents/container in accordance with	
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3. Composition		
Chemical Family:	Ceramic	
Additional Names:	None	
Cobalt boride (Co ₂ B):		
Percentage:	100 wt%	
CAS #:	12045-01-1	
EC #:	NIL	
	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:	Give one to two glasses of water and induce vomiting. Never induce	
C1 :	vomiting or give anything by mouth to an unconscious person.	
Skin:	Wash affected area with mild soap and water. Remove any	
Eyes:	contaminated clothing. Flush eyes with water, blinking often for several minutes. Remove	
Lyes.	contact lenses if present and easy to do. Continue rinsing	
	contact renses in present and easy to do. Continue mising	
	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	
XX7 - 1 /XX	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	
Ventilation:	compressed air. Provide sufficient ventilation to maintain concentration at or below	

Permissible Exposure Limits: Fhreshold Limit Value:	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
	sleeves/pants.
9. P	hysical and Chemical Characteristics
Color	Dark grey
Form:	Powder, Granules, Pellets, Sputtering target, Custom parts
Odor:	Odorless
Water Solubility:	Insoluble
Boiling Point:	N/A
Melting Point:	N/A
Flash Point:	N/A
Autoignition Temperature:	N/A
Density:	N/A
Molecular weight:	N/A
	10. Reactivity
Stability:	Stable under recommended storage conditions
Reacts With:	Oxidizing agents
Incompatible Conditions:	None
Hazardous Decomposition Products:	Metal oxide fume, Boron oxide

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
Signs & Symptoms:	N/A
Aggravated Medical Conditions:	N/A
Median Lethal Dose:	N/A
Carcinogen:	IARC-2B: Possibly carcinogenic to humans: limited evidence in human in the absence of sufficient evidence 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 suggests that the agent is not likely to cause cancer in humans except under uncommon or unlikely routes or level of exposure. EPA-I: Data are inadequate for an assessment of human carcinogenic potential.
	12. Ecological Information
Aquatic Toxicity: Persistent Bioaccumulation Toxicity: Very Persistent, Very Bioaccumulative Notes:	N/A
	13. Disposal Considerations
Dispose of in accordance with local, state, 1	-
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	national, and international regulations.
Hazardous:	national, and international regulations. 14. Transportation Data
Hazardous: Hazard Class:	national, and international regulations. 14. Transportation Data Not hazardous for transportation.
Hazardous: Hazard Class: Packing Group:	national, and international regulations. 14. Transportation Data Not hazardous for transportation. N/A
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Hazardous: Hazard Class: Packing Group: UN Number: Proper Shipping Name:	national, and international regulations. 14. Transportation Data Not hazardous for transportation. N/A N/A N/A N/A N/A 15. Regulatory Information

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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