

LTS Research Laboratories, Inc. Safety Data Sheet Cobalt Boride

1. Product and Company Identification

Trade Name: Cobalt boride

Chemical Formula: CoB, Co_2B , Co_3B , Co_xB_y

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 #: 845-587-2436 / 845-lts-chem

24-Hour Emergency Contact: 800-424-9300 (US & Canada)

+1-703-527-3887 (International)

2. Hazards Identification

Signal Word: Warning



Hazard Statements: H317 May cause allergic skin reaction

H350 May cause cancer

Precautionary Statements: P261 Avoid breathing dust/fume/vapor

P280 Wear protective gloves/clothing/face protection P363 Wash contaminated clothing before reuse

HMIS Health Ratings (0-4):

Health: 1 Flammability: 0 Physical: 1

3. Composition

Chemical Family: Ceramic Additional Names: N/A

Percentage: Material will be one of the following as described on label, though

mixed phases may occur

Cobalt boride (CoB):

CAS #: 12006-77-8

Cobalt boride (Co₂B):

CAS #: 12045-01-1

Cobalt boride (Co₃B):

CAS #: 12006-78-9

Cobalt boride (Co₂B+Co₃B):

CAS #: 12619-68-0 EC #: 235-722-7

4. First Aid Procedures General Treatment: Seek medical attention if symptoms persist. Special Treatment: None Important Symptoms: None Remove victim to fresh air. Supply oxygen if breathing is difficult. Inhalation: Give one to two glasses of water and induce vomiting. Never induce Ingestion: vomiting or give anything by mouth to an unconscious person. Wash affected area with mild soap and water. Remove any Skin: contaminated clothing. Flush eyes with water, blinking often for several minutes. Remove Eyes: 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 Wear appropriate respiratory and protective equipment specified in If Material Is Released/Spilled: 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: None Threshold Limit Value: None Special Equipment: None **Respiratory Protection: Dust Respirator** Protective Gloves: Rubber gloves Eve Protection: Safety glasses or goggles

Protective work clothing. Wear close-toed shoes and long

sleeves/pants.

Body Protection:

Dark grey Powder, Granules, Pellets, Sputtering target, Custom parts Odorless
Powder, Granules, Pellets, Sputtering target, Custom parts
Odoness
Insoluble
N/A
1200-1400 °C
N/A
N/A
~7 g/cc
varies
10. Reactivity
Stable under recommended storage conditions
Oxidizing agents
None
Metal oxide fume
11. Toxicological Information
May cause irritation
May cause irritation, allergic skin reaction
May cause irritation
May cause irritation
N/A
IV/A
Research
N/A honatories, Inc.
N/A
N/A
May agus agraer
May cause cancer
EPA-I, IARC-2B, ACGIH-A3
12. Ecological Information
Low
No
No
N/A
13. Disposal Considerations
national, and international regulations.
14. Transportation Data
Not hazardous for transportation.
N/A
N/A
N/A
N/A

N/A

Proper Shipping Name:

No	
N/A	
Yes	
	N/A

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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