

LTS Research Laboratories, Inc. Safety Data Sheet Iron Silicon Boron Alloy

1. Product and Company Identification

Trade Name: Iron silicon boron alloy

Chemical Formula: Fe/Si/B

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: H302: Harmful if swallowed

Precautionary Statements: P264: Wash thoroughly after handling

P270: Do not eat, drink or smoke when using this product P301+P312: IF SWALLOWED: Call a POISON CENTER or

doctor/physician if you feel unwell

P330: Rinse mouth

P501: Dispose of contents/container in accordance with

local/regional/national/international regulations

HMIS Health Ratings (0-4):

Health: 1 Flammability: 0 Physical: 0

	3. Composition
Chemical Family:	Alloy
Additional Names:	None
Iron (Fe):	
Percentage:	100 wt%
CAS #:	4739-89-6
EC #:	231-096-4
Silicon (Si):	0.10007
Percentage: CAS #:	0-100 wt% 7440-21-3
EC #:	7440-21-3 231-130-8
EC#.	231-130-6
Boron (B):	
Percentage:	0-100 wt%
CAS #:	7440-42-8
EC #:	231-151-2
	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, except as powder
Extinguishing Media:	Do not use water for metal fires – use CO ₂ , sand, extinguishing powder
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.
T	Take care not to raise dust.
Environmental Precautions:	Isolate runoff to prevent environmental pollution.

7. Handling and Storage

Handling Conditions: Wash thoroughly after handling.

Store in a cool dry place in a tightly sealed container. Store apart from **Storage Conditions:**

materials and conditions listed in section 10.

Do not use tobacco or food in work area. Wash thoroughly before Work/Hygienic Maintenance:

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: 15 mg/m³ as Si total dust, long-term value

5 mg/m³ as Si repirable fraction, long-term value

Threshold Limit Value: N/A

Special Equipment: None

Respiratory Protection: Dust Respirator Protective Gloves: Rubber gloves

Safety glasses or goggles Eye Protection:

Protective work clothing. Wear close-toed shoes and long **Body Protection:**

sleeves/pants.

9. Physical and Chemical Characteristics

Color Silver

Powder, Granules, Pellets, Sputtering target, Custom parts Form:

Odorless Odor:

Redearch Water Solubility: Insoluble ratorias, Inc. **Boiling Point:** N/A

Melting Point: N/A Flash Point: N/A

Autoignition Temperature: N/A Density: N/A N/A Molecular weight:

10. Reactivity

Stability: Stable under recommended storage conditions Reacts With: Halogens, Interhalogens, Oxidizing agents

Incompatible Conditions: None

Hazardous Decomposition Products: Boron oxide, Iron 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: 30000 mg/kg for rat by mouth

Carcinogen: N/A

	12. Ecological Information
Aquatic Toxicity:	Low
Persistent Bioaccumulation Toxicity:	No
Very Persistent, Very Bioaccumulative:	No
Notes:	N/A
	13. Disposal Considerations
Dispose of in accordance with local, state	e, national, and international regulations.
	14. Transportation Data
Hazardous:	14. Transportation Data Not hazardous for transportation.
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Hazard Class:	Not hazardous for transportation.
Hazard Class:	Not hazardous for transportation. N/A
Hazard Class: Packing Group: UN Number:	Not hazardous for transportation. N/A N/A
Hazardous: Hazard Class: Packing Group: UN Number: Proper Shipping Name:	Not hazardous for transportation. N/A N/A N/A
Hazard Class: Packing Group: UN Number:	Not hazardous for transportation. N/A N/A N/A N/A N/A
Hazard Class: Packing Group: UN Number: Proper Shipping Name:	Not hazardous for transportation. N/A N/A N/A N/A N/A 15. Regulatory 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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