

LTS Research Laboratories, Inc. Safety Data Sheet Silicon Germanium Boron

1. Product and Company Identification

Trade Name: Silicon germanium boron

Chemical Formula: Si-Ge-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 #: 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



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: | Ceramic | |
| Additional Names: | None | |
| Silicon (Si): | | |
| Percentage: | 0-100 wt% | |
| CAS #: | 7440-21-3 | |
| EC #: | 231-130-8 | |
| Germanium (Ge): | 231 130 0 | |
| Percentage: | 0-100 wt% | |
| CAS #: | 7440-56-4 | |
| EC #: | 231-164-3 | |
| Boron (B): | 201 101 0 | |
| Percentage: | 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. | |
| | 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: 5 mg/m³ as Si, long-term value Threshold Limit Value: N/A Special Equipment: None **Respiratory Protection:** Not required Protective Gloves: Not required Eye Protection: Safety glasses or goggles **Body Protection:** Protective work clothing. Wear close-toed shoes and long sleeves/pants. 9. Physical and Chemical Characteristics Color Grey Form: Sputtering target Odor: Odorless Water Solubility: Insoluble **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 Stable under recommended storage conditions Stability: Reacts With: Halogens, Interhalogens, Oxidizing agents **Incompatible Conditions:** None ratorias, Inc. Hazardous Decomposition Products: Metal oxide fume 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: 650 mg/kg for rat by mouth Carcinogen: N/A 12. Ecological Information Aquatic Toxicity: Low Persistent Bioaccumulation Toxicity: No

13. Disposal Considerations

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

No

N/A

Very Persistent, Very Bioaccumulative:

Notes:

| 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 | |

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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