

LTS Research Laboratories, Inc. Safety Data Sheet Ytterbium Silicide

1. Product and Company Identification

Trade Name: Ytterbium silicide

Chemical Formula: YbSi₂

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: None Hazard Statements: None Precautionary Statements: None

HMIS Health Ratings (0-4):

Health:

Flammability: Physical:

Research Research

3. Composition

Chemical Family: Ceramic

Additional Names: Ytterbium(V) silicide

Ytterbium silicide (YbSi₂):

Percentage: 100 wt%
CAS #: 12039-89-3
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: 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 – use CO₂, 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. Isolate runoff to prevent environmental pollution. **Environmental Precautions:** 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. Provide sufficient ventilation to maintain concentration at or below Ventilation: threshold limit. 8. Exposure Controls and Personal Protection N/A Permissible Exposure Limits: 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. Physical and Chemical Characteristics Color 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

229.21 g/mol

Molecular weight:

10. Reactivity Stability: Stable under recommended storage conditions Reacts With: Oxidizing agents **Incompatible Conditions:** None Hazardous Decomposition Products: Metal oxide fume 11. Toxicological Information Potential Health Effects: Eyes: May cause irritation Skin: May cause irritation May cause irritation Ingestion: Inhalation: May cause irritation Chronic: Inorganic silicon compounds may be acute inhalation irritants. Prolonged inhalation may cause pulmonary fibrosis known as silicosis. Lanthanons can cause delayed blood clotting leading to hemorrhages. Exposure may also lead to sensitivity to heat, itching, increased awareness of odor and taste, and liver damage. N/A Signs & Symptoms: **Aggravated Medical Conditions:** N/A Median Lethal Dose: N/A Carcinogen: N/A 12. Ecological Information Aquatic Toxicity: Low No Persistent Bioaccumulation Toxicity: Very Persistent, Very Bioaccumulative: No Notes: N/A 13. Disposal Considerations Dispose of in accordance with local, state, national, and international regulations. 14. Transportation Data 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

No

N/A

No

Sec 302 Extremely Hazardous:

Sec 304 Reportable Quantities:

Sec 313 Toxic Chemicals:

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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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