

# LTS Research Laboratories, Inc. Safety Data Sheet Bismuth Silicon Oxide

#### 1. Product and Company Identification

Trade Name: Bismuth silicon oxide

Chemical Formula: Bi<sub>2</sub>SiO<sub>5</sub>

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:NoneHazard Statements:NonePrecautionary Statements:None

HMIS Health Ratings (0-4):

Health:

Flammability: Physical:

1 Research

## 3. Composition

Chemical Family: Ceramic Additional Names: None

Bismuth silicon oxide (Bi<sub>2</sub>SiO<sub>5</sub>):

Skin:

Percentage: 100 wt% CAS #: NIL 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

vomiting or give anything by mouth to an unconscious person.

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

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

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: N/A
Threshold Limit Value: N/A

Special Equipment: None

Respiratory Protection:
Protective Gloves:

Dust Respirator
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 Faded yellow

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

Odor:
Water Solubility:
N/A
Boiling Point:
N/A
Melting Point:
N/A
Flash Point:
N/A
Autoignition Temperature:
N/A
Density:
N/A

Molecular weight: 598.041 g/mol

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 Ingestion: May cause irritation Inhalation: May cause irritation Chronic: Inorganic silicon compounds may be acute inhalation irritants. Prolonged inhalation may cause pulmonary fibrosis known as silicosis. Signs & Symptoms: N/A Aggravated Medical Conditions: N/A Median Lethal Dose: 4000 mg/kg for rat by mouth as Bismuth oxide N/A Carcinogen: 12. Ecological Information Aquatic Toxicity: Low Persistent Bioaccumulation Toxicity: No Redearch 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:

#### 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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