

LTS Research Laboratories, Inc. Safety Data Sheet Bismuth Iron Oxide

1. Product and Company Identification

Trade Name: Bismuth Iron Oxide

Chemical Formula: Bi₃Fe₅O₁₂

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

 $\begin{array}{lll} \mbox{Signal Word:} & \mbox{None} \\ \mbox{Hazard Statements:} & \mbox{N/A} \\ \mbox{Precautionary Statements:} & \mbox{N/A} \end{array}$

HMIS Health Ratings (0-4):

Health: 0
Flammability: 0
Physical: 0

3. Composition

Chemical Family: Ceramic Additional Names: N/A

Bismuth Iron Oxide (Bi₃Fe₅O₁₂):

Percentage: 100 wt% CAS #: 12048-65-6 EC #: N/A

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. Never induce vomiting or give

anything by mouth to an unconscious person.

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:	Use suitable extinguishing agent for surrounding material and type of fire. Use sand, extinguishing powder, alcohol-resistant foam, or carbon dioxide
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
Ventilation:	compressed air. Provide sufficient ventilation to maintain concentration at or below threshold limit.
	8. Exposure Controls and Personal Protection
Permissible Exposure Limits:	15 mg/m ³ as Iron oxide, long-term value, total dust 5 mg/m ³ as Iron oxide, long-term value, respirable factor 10 mg/m ³ as Iron oxide, long-term value, fume
Threshold Limit Value:	5 mg/m ³ as Iron oxide, long-term value
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	N/A
Form:	Powder, Granules, Pellets, Sputtering target, Custom parts
Odor:	N/A
Water Solubility: Boiling Point:	N/A N/A
Melting Point:	N/A
Flash Point:	N/A
Autoignition Temperature:	N/A
Density:	N/A
Molecular weight:	1101.2 g/mol

10. Reactivity Stability: Stable under recommended storage conditions Reacts With: N/A **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 Prolonged contact may cause dryness of the skin Chronic: Signs & Symptoms: N/A **Aggravated Medical Conditions:** N/A N/A Median Lethal Dose: N/A Carcinogen: 12. Ecological Information Aquatic Toxicity: N/A Persistent Bioaccumulation Toxicity: No Very Persistent, Very Bioaccumulative: No Avoid discharge into drains, watercourses or onto the ground Notes: 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 Sec 302 Extremely Hazardous: No

N/A

No

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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