



SANTECH

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Material Safety Data Sheet

Bismuth Ingot MSDS

Section 1 - Chemical Product and Company Identification -----

Product Name: Bismuth Ingot
Molecular Weight: Bi 208.98037
CAS#: 7440-69-9
EINECS#: 231-177-4
Data No.: MSDS-Bi-160124

Manufacturer Information

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Section 2 - Composition, Information on Ingredients -----

Composition:

Name	CAS No.	EC-No.	%by weight
Bismuth	7440-69-9	231-177-4	100

Section 3 - Hazards Identification -----

GHS Classification (29 CFR 1910.1200): Not classified as hazardous

GHS Label Elements:

Signal Word: N/A

Hazard Statements: N/A

Precautionary Statements: N/A

Section 4 - First Aid Measures -----

General advice: Consult a physician. Show this safety data sheet to the doctor in attendance.
Move out of dangerous area.

If inhaled: If breathed in, move person into fresh air. If not breathing, give artificial respiration.
Consult a physician.

In case of skin contact: Wash off with soap and plenty of water. Consult a physician.

In case of eye contact: Flush eyes with water as a precaution.

If swallowed: Do NOT induce vomiting. Never give anything by mouth to an unconscious person.

Rinse mouth with water. Consult a physician.

Section 5 - Fire Fighting Measures

Conditions of flammability: Flammable in the presence of a source of ignition, through friction or retained heat. Keep away from heat/sparks/open flame/hot surface. No smoking.

Suitable extinguishing media: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Special protective equipment for firefighters: Wear self contained breathing apparatus for fire fighting if necessary.

Hazardous combustion products: Hazardous decomposition products formed under fire conditions. - Bismuth oxides

Further information: Use water spray to cool unopened containers.

Section 6 - Accidental Release Measures

Personal precautions: Use personal protective equipment. Avoid dust formation. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Avoid breathing dust.

Environmental precautions: Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

Methods and materials for containment and cleaning up: Sweep up and shovel. Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations. Keep in suitable, closed containers for disposal. Contain spillage, pick up with an electrically protected vacuum cleaner or by wet-brushing and transfer to a container for disposal according to local regulations .

Section 7 - Handling and Storage

Precautions for safe handling: Avoid formation of dust and aerosols.

Provide appropriate exhaust ventilation at places where dust is formed. Keep away from sources of ignition - No smoking. Take measures to prevent the build up of electrostatic charge.

Conditions for safe storage: Keep container tightly closed in a dry and well-ventilated place. Keep in a dry place.

Section 8 - Exposure Controls, Personal Protection

Exposure Limits: Bismuth

OSHA/PEL: No exposure limit established

ACGIH/TLV: No exposure limit established

Appropriate Engineering Controls: Whenever possible the use of local exhaust ventilation or other engineering controls is the preferred method of controlling exposure to airborne dust and fume to meet established occupational exposure limits. Use good housekeeping and sanitation practices. Do not use tobacco or food in work area. Wash thoroughly before eating or smoking. Do not blow dust off clothing or skin with compressed air.

Individual Protection Measures, Such as Personal Protective Equipment:

Respiratory Protection: When potential exposures are above the occupational limits, approved respirators must be used.

Eye Protection: Safety glasses

Skin Protection: Wear impermeable gloves, protective work clothing as necessary.

Section 9 - Physical and Chemical Properties -----

Physical state and appearance: Ingot

Colour: Silvery white with rose Ingot

pH: Not available

Melting point/range: 271 ° C (520 ° F) - lit.

Boiling point: 1,560 ° C (2,840 ° F) - lit.

Flash point: Not available

Flammability (solid, gas): The substance or mixture is a flammable solid

Ignition temperature: Not available

Autoignition temperature: Not available

Lower explosion limit: Not available

Upper explosion limit: Not available

Vapour pressure: < 0.1 hPa (< 0.1 mmHg) at 20 ° C (68 ° F)

Density: 9.8 g/mL at 25 ° C (77 ° F)

Water solubility: insoluble

Partition coefficient: Not available

Relative vapour density: Not available

Odour: odourless

Odour Threshold: Not available

Evaporation rate: Not available

Section 10 - Stability and Reactivity -----

Chemical stability: Stable under recommended storage conditions.

Possibility of hazardous reactions: Not available

Conditions to avoid: Heat, flames and sparks. Extremes of temperature and direct sunlight.

Materials to avoid: Oxidizing agents, Halogens, acids

Hazardous decomposition products: Hazardous decomposition products formed under fire conditions. - Bismuth oxides

Other decomposition products: Not available

Section 11 - Toxicological Information -----

Inhalation: May be harmful if inhaled. May cause respiratory tract irritation.

Ingestion: May be harmful if swallowed.

Skin: May be harmful if absorbed through skin. May cause skin irritation.

Eyes: May cause eye irritation.

Signs and Symptoms of Exposure: Kidney disorders, Liver disorders, Dermatitis

Synergistic effects: Not available

Section 12 - Ecological Information -----

Toxicity: Not available

Persistence and degradability: Not available

Bioaccumulative potential: Not available

Mobility in soil:

PBT and vPvB assessment: Not available

Other adverse effects: Not available.

Section 13 - Disposal Considerations -----

Product: Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is highly flammable. Offer surplus and non-recyclable solutions to a licensed disposal company.

Contaminated packaging: Dispose of as unused product.

Section 14 - Transport Information -----

Shipping Regulations: Not regulated

UN Number: N/A

UN Proper Shipping Name: N/A

Transport Hazard Class: N/A

Packing Group: N/A

Marine Pollutant: No

Section 15 - Regulatory Information -----

Regulation (EC) No 1272/2008 (CLP): N/A

Canada WHMIS Classification (CPR, SOR/88-66): N/A

HMIS Ratings: Health: 1 Flammability: 0 Physical: 0

NFPA Ratings: Health: 1 Flammability: 0 Instability: 0

Chemical Safety Assessment: A chemical safety assessment has not been carried out.

Section 16 - Additional Information -----

References: Not available.

Other Special Considerations: Not available.

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