

MATERIAL SAFETY DATA SHEET

BISMUTH METAL POWDER 99.99% AR

MSDS CAS :- 7440-69-9

Section 1: Chemical Product and Company Identification

Section 1: Chemical Product

Product Name: BISMUTH METAL POWDER 99.99% AR

CAS#: 7440-69-9

C.I. No.: Not available.

Synonym: Not available.

Chemical Name: Not available.

Chemical Formula: Bi

Molecular Weight: 208.98

Brand: OXFORD

Details Of The Supplier Of The Safety Data Sheet:

Company identification: **OXFORD LAB FINE CHEM LLP**
Unit. No. 12, 1st Floor, Neminath Industrial Estate No. 6,
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Section 2: Composition and Information on Ingredients

Composition:

Name	CAS #	% by Weight	Hazardous
BISMUTH METAL	7440-69-9	99-100%	Yes

Section 3: Hazards Identification

Emergency Overview:

CAUTION! MAY CAUSE IRRITATION TO SKIN, EYES, AND RESPIRATORY TRACT.

Health Rating: 1 - Slight

Flammability Rating: 0 - None

Reactivity Rating: 1 - Slight

Contact Rating: 0 - None

Lab Protective Equip: GOGGLES; LAB COAT

Storage Color Code: Orange (General Storage)

Potential Health Effects:

Inhalation: May cause irritation to the respiratory tract. Symptoms may include coughing and shortness of breath.

Ingestion: Bismuth salt is poorly absorbed. Should absorption occur, symptoms may include loss of appetite, headache, skin rashes, kidney damage, and rarely mild jaundice.

Skin Contact: May cause mild irritation. Absorption may occur only minimally through broken skin.

Eye Contact: May cause mild irritation.

Chronic Exposure: Repeated or prolonged ingestion may cause a "bismuth line", black spots on the gums, foul breath, and salivation. Chronic exposure may affect kidneys and liver.

Aggravation of Pre-existing Conditions: No information found.

Section 4: First Aid Measures

Inhalation: Remove to fresh air. Get medical attention for any breathing difficulty.

Ingestion: Give several glasses of water to drink to dilute. If large amounts were swallowed, get medical advice.

Section 4: First Aid Measures (Continued)

Skin Contact: Wash exposed area with soap and water. Get medical advice if irritation develops.

Eye Contact: Immediately flush eyes with plenty of water for at least 15 minutes, lifting upper and lower eyelids occasionally. Get medical attention if irritation persists.

Section 5: Fire and Explosion Data

Fire: Moderate fire hazard when exposed to heat or flame. Readily flammable in powder form.

Explosion: Fine dust dispersed in air in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard.

Fire Extinguishing Media: Use any means suitable for extinguishing surrounding fire. Do not use water on fire where molten metal is present.

Special Information: In the event of a fire, wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full facepiece operated in the pressure demand or other positive pressure mode. Toxic bismuth fumes may be released during a fire.

Section 6: Accidental Release Measures

Remove all sources of ignition. Ventilate area of leak or spill. Wear appropriate personal protective equipment as specified in Section 8. Spills: Clean up spills in a manner that does not disperse dust into the air. Use non-sparking tools and equipment. Reduce airborne dust and prevent scattering by moistening with water. Pick up spill for recovery or disposal and place in a closed container.

Section 7: Handling and Storage

Keep in a tightly closed container. Protect from physical damage. Store in a cool, dry, ventilated area away from sources of heat, ignition sources, moisture and incompatibilities.

Avoid dust dispersal. Containers of this material may be hazardous when empty since they retain product residues (dust, solids); observe all warnings and precautions listed for the product.

Section 8: Exposure Controls/Personal Protection

Airborne Exposure Limits: None established.

Ventilation System: A system of local and/or general exhaust is recommended to keep employee exposures as low as possible. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source, preventing dispersion of it into the general work area. Please refer to the ACGIH document, Industrial Ventilation, A Manual of Recommended Practices, most recent edition, for details.

Personal Respirators (NIOSH Approved): For conditions of use where exposure to the dust or mist is apparent, a half-face dust/mist respirator may be worn. For emergencies or instances where the exposure levels are not known, use a full-face positive-pressure, air-supplied respirator. **WARNING:** Air-purifying respirators do not protect workers in oxygen-deficient atmospheres.

Skin Protection: Wear protective gloves and clean body-covering clothing.

Eye Protection: Use chemical safety goggles. Maintain eye wash fountain and quick-drench facilities in work area.

Section 9: Physical and Chemical Properties

Information on basic physical and chemical properties:

Physical state and Appearance	: Grayish-white or silver metallic granules.
Odour	: Odourless
Solubility	: Insoluble in water.
Specific Gravity	: 9.75
pH	: No information found.

Section 9: Physical and Chemical Properties (Continued)

% Volatiles by volume @ 21C (70F)	: 0
Boiling Point	: No information found.
Melting Point	: 271°C (520F)
Vapor Density (Air=1)	: No information found.
Vapor Pressure (mm Hg)	: 1 @ 1021°C (1870F)
Evaporation Rate (BuAc=1)	: No information found.

Section 10: Stability and Reactivity Data

Stability: Stable under ordinary conditions of use and storage.

Hazardous Decomposition Products: No hazardous decomposition products.

Hazardous Polymerization: Will not occur.

Incompatibilities: Aluminum, bromine trifluoride, strong oxidizers, strong acids, nitrosyl fluoride, ammonium nitrate, chloric acid, chlorine, iodine pentafluoride, nitric acid, perchloric acid, and bismuth hydroxide plus aluminum hydroxide.

Conditions to Avoid: Heat, flame, ignition sources, dusting, air, light and incompatibles.

Section 11: Toxicological Information

For Bismuth: Oral rat LD50: 5g/kg

---\Cancer Lists\---NTP Carcinogen---

---Ingredient Known---Anticipated---IARC---Category

---Bismuth Metal (7440-69-9) No No None

Section 12: Ecological Information

Environmental Fate: No information found.

Environmental Toxicity: No information found.

Section 13: Disposal Considerations

Whatever cannot be saved for recovery or recycling should be managed in an appropriate and approved waste disposal facility. Processing, use or contamination of this product may change the waste management options. State and local disposal regulations may differ from federal disposal regulations. Dispose of container and unused contents in accordance with federal, state and local requirements.

Section 14: Transport Information

Land transport (ADR-RID):

General information : Not regulated.

Sea transport (IMDG) [English only]:

General information : Not regulated.

Air transport (ICAO-IATA) [English only]:

General information : Not regulated.

Section 15: Other Regulatory Information

Safety, health and environmental regulations/legislation specific for the substance or mixture:

Safety, health and environmental: Ensure all national/local regulations are observed.
regulations/legislation specific for the substance or mixture.

REACH Restrictions - Annex XVII: The components of this product are not subject to restrictions.

REACH Authorisation - Annex XIV: The components of this product are not subject to authorization.

Chemical Safety Assessment: It has not been carried out.

Section 16 - Additional Information

NFPA Ratings: Health:1 Flammability: 1 Reactivity: 0

Label Hazard Warning:

CAUTION! MAY CAUSE IRRITATION TO SKIN, EYES, AND RESPIRATORY TRACT.

Label Precautions: Avoid breathing dust or fumes. Avoid contact with eyes, skin and clothing. Use with adequate ventilation. Keep container closed. Wash thoroughly after handling.

Label First Aid: If inhaled, remove to fresh air. Get medical attention for any breathing difficulty. In case of contact, immediately flush eyes or skin with plenty of water for at least 15 minutes. Get medical attention if irritation develops or persists.

Product Use: Laboratory Reagent.

Revision Information: No changes.

Disclaimer:

The information contained herein in good faith but makes no representations as to its comprehensiveness or accuracy. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product.

Individuals receiving the information must exercise their independent judgment in determining its appropriateness for a particular purpose.

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