



Section 1 - Chemical Product and Company Identification

Product Name Bismuth Metal Ingots ultrapure, 99.99%
Product Code 24008
CAS No 7440-69-9
Use for Laboratory Chemicals.
Company Name Sisco Research Laboratories Pvt. Ltd.
Address 608, B Wing, Satellite Gazebo, Andheri Ghatkopar Link Road,
Andheri (E), Mumbai - 400 099, India

Section 2 - Composition/Information on Ingredients

CAS#	Chemical Name:	%	EINECS#
7440-69-9	Bismuth	<=100	231-177-4

Section 3 - Hazards Identification

EMERGENCY OVERVIEW

Warning! Flammable solid. Air sensitive. May cause eye and skin irritation. May cause respiratory and digestive tract irritation. Flammable when exposed to flame.

Target Organs: None known.

Potential Health Effects

Eye: May cause eye irritation.

Skin: May cause skin irritation.

Ingestion: May cause gastrointestinal irritation with nausea, vomiting and diarrhea. May cause fever and rheumatic pain.

Inhalation: May cause respiratory tract irritation.

Chronic: Repeated or prolonged exposure may cause a bismuth line or black spots on the gums, foul breath and salivation.

Section 4 - First Aid Measures

Eyes: Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid immediately.

Skin: Get medical aid immediately. Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes.

Ingestion: If victim is conscious and alert, give 2-4 cupfuls of milk or water. Never give anything by mouth to an unconscious person. Get medical aid immediately.

Inhalation: Get medical aid immediately. Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.

Notes to Physician:



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Section 5 - Fire Fighting Measures

Extinguishing Media : Use agent most appropriate to extinguish fire.

General

Information: As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. Flammable when exposed to flame. Flammable solid.

Section 6 - Accidental Release Measures

General Information: Use proper personal protective equipment as indicated in Section 8.

Spills/Leaks: Sweep up or absorb material, then place into a suitable clean, dry, closed container for disposal.

Section 7 - Handling and Storage

Handling: Wash thoroughly after handling. Use only in a well-ventilated area. Minimize dust generation and accumulation. Avoid contact with eyes, skin, and clothing. Avoid ingestion and inhalation.

Storage: Keep away from heat and flame. Keep away from sources of ignition. Store in a cool, dry place. Store in a tightly closed container.

Section 8 - Exposure Control / Personal Protection

Engineering Controls: Use adequate ventilation to keep airborne concentrations low.

Personal Protective Equipment

Skin: Wear appropriate protective gloves to prevent skin exposure.

Clothing: Wear appropriate protective clothing to prevent skin exposure.

Respirators: Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

Section 9 - Physical and Chemical Properties

Physical State: Powder

Color: Greyish-black

Molecular Formula: Bi

Molecular Weight: 208.98

Section 10 - Stability and Reactivity



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Chemical Stability: Stable under normal temperatures and pressures.

Conditions to Avoid: Ignition sources, electrical sparks, exposure to flame.

Incompatibilities with

Other Materials: Acids, aluminum, bromine trifluoride, halogens, nitric acid.

Hazardous Decomposition

Products: Bismuth oxide.

Hazardous Polymerization: Will not occur.

Section 11 - Toxicological Information

RTECS#: CAS# 7440-69-9: EB2600000

LD50/LC50: RTECS: CAS# 7440-69-9:
Oral, mouse: LD50 = 10 gm/kg;
Oral, rat: LD50 = 5000 mg/kg;

Carcinogenicity: Bismuth - Not listed as a carcinogen by ACGIH, IARC, NTP, or CA Prop 65.

Epidemiology: Not available

Teratogenicity: Not available

Reproductive: Not available

Neurotoxicity: Not available

Mutagenicity: Not available

Other: Not available

Section 12 - Ecological Information

No data available.

Section 13 - Disposal Considerations

No data available.

Section 14 - Transport Information

	IATA	IMO	RID/ADR
Shipping Name:	Metal Powders, Flammable, N.O.S.	Metal Powders, Flammable, N.O.S.	Metal Powders, Flammable, N.O.S.
Hazard Class:	4.1	4.1	4.1
UN Number:	3089	3089	3089
Packing Group:	III	III	III

Section 15 - Regulatory Information



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European/International Regulations

European Labeling in Accordance with EC Directives

Hazard Symbols: F

Risk Phrases: R 11 Highly flammable.

Safety Phrases: S 16 Keep away from sources of ignition - No smoking.

WGK (Water Danger/Protection)CAS# 7440-69-9: Not available

Canada: CAS# 7440-69-9 is listed on Canada's DSL List

US Federal

TSCA: CAS# 7440-69-9 is listed on the TSCA Inventory.

Health & Safety Reporting

List : None of the chemicals are on the Health & Safety Reporting List.

Chemical Test Rules: None of the chemicals in this product are under a Chemical Test Rule.

Section 12b: None of the chemicals are listed under TSCA Section 12b.

TSCA Significant New Use

Rule: None of the chemicals in this material have a SNUR under TSCA.

CERCLA Hazardous

Substances and

corresponding RQs: None of the chemicals in this material have an RQ.

SARA Section 302

Extremely Hazardous

Substances: None of the chemicals in this product have a TPQ.
SARA Codes CAS # 7440-69-9: acute, flammable.

Section 313: No chemicals are reportable under Section 313.

Clean Air Act: This material does not contain any hazardous air pollutants. This material does not contain any Class 1 Ozone depleters. This material does not contain any Class 2 Ozone depleters.

Clean Water Act: None of the chemicals in this product are listed as Hazardous Substances under the CWA. None of the chemicals in this product are listed as Priority Pollutants under the CWA. None of the chemicals in this product are listed as Toxic Pollutants under the CWA.

OSHA: STATE Bismuth is not present on state lists from CA, PA, MN, MA, FL, or NJ.

California Prop 65: California No Significant

Risk Level: None of the chemicals in this product are listed.

Section 16 - Other Information

Sisco Research Laboratories Pvt. Ltd. provides the information contained herein in good faith but makes no representation 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.