SECTION 1 — CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Bismuth

Flinn Scientific, Inc. P.O. Box 219 Batavia, IL 60510 (800) 452-1261
CHEMTREC Emergency Phone Number: (800) 424-9300

SECTION 2 — COMPOSITION, INFORMATION ON INGREDIENTS

Bismuth

CAS#: 7440-69-9

SECTION 3 — HAZARDS IDENTIFICATION

Dark grey lumps or powder. Slightly toxic by inhalation or ingestion. Avoid inhalation of dust.

SECTION 4 — FIRST AID MEASURES

Call a physician and seek medical attention for further treatment, observation, and support after first aid. Inhalation: Remove to fresh air at once. If breathing has stopped, give artificial respiration immediately. Eye: Immediately flush with fresh water for at least 15 minutes. External: Wash continuously with fresh water for at least 15 minutes. Internal: Give large quantities of water. Call a physician or poison control at once.

SECTION 5 — FIRE FIGHTING MEASURES

Flammable only in fine powder form. Moderately dangerous, can react with acid or acid fumes to emit toxic fumes. Fire Fighting Instructions: Use a triclass, dry chemical fire extinguisher. Firefighters should wear PPE and SCBA with full facepiece operated in positive pressure mode.

SECTION 6 — ACCIDENTAL RELEASE MEASURES

Restrict unprotected personnel from the area. Remove all ignition sources and water. Sweep up the spill, place in a sealed bag or container, and dispose. Ventilate area and wash spill site after material pickup is complete. See Sections 8 and 13 for further information.

SECTION 7 — HANDLING AND STORAGE

Flinn Suggested Chemical Storage Pattern: Inorganic #1. Store with metals and metal hydrides. Store in a cool, dry place.

SECTION 8 — EXPOSURE CONTROLS, PERSONAL PROTECTION

Avoid contact with eyes, skin, and clothing. Wear chemical splash goggles, chemical-resistant gloves, and chemical-resistant apron.
SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES

Dark grey powder.  
Melting Point: 570 °F  
Solubility: Insoluble in water, soluble in dilute Nitric or HCl.  
Specific Gravity: 9.78  
Formula: Bi  
Formula Weight: 208.98

SECTION 10 — STABILITY AND REACTIVITY

Avoid contact with strong oxidizers, halogens, and acids; especially concentrated nitric acid, perchloric acid, fused ammonium nitrate, and gaseous chlorine.  
Shelf life: Indefinite.

SECTION 11 — TOXICOLOGICAL INFORMATION

Acute effects: Harmful dust.  
ORL-RAT LD<sub>50</sub>: 5 g/kg  
Chronic effects: N.A.  
IHL-RAT LC<sub>50</sub>: N.A.  
Target organs: N.A.  
SKN-RBT LD<sub>50</sub>: N.A.

N.A. = Not available, not all health aspects of this substance have been fully investigated.

SECTION 12 — ECOLOGICAL INFORMATION

Data not yet available.

SECTION 13 — DISPOSAL CONSIDERATIONS

Please consult with state and local regulations.  
Flinn Suggested Disposal Method #26a is one option.

SECTION 14 — TRANSPORT INFORMATION

Shipping Name: Not regulated  
Hazard Class: N/A  
UN Number: N/A  
N/A = Not applicable

SECTION 15 — REGULATORY INFORMATION

TSCA-listed, EINECS-listed (231-177-4), RCRA code D001.

SECTION 16 — OTHER INFORMATION

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Consult your copy of the Flinn Science Catalog/Reference Manual for additional information about laboratory chemicals.