

**FLINN SCIENTIFIC, INC.**  
**Material Safety Data Sheet (MSDS)**

MSDS #: 117.10

Revision Date: May 20, 2010

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**SECTION 1 — CHEMICAL PRODUCT AND COMPANY IDENTIFICATION**

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**Bismuth Nitrate Solution**

Flinn Scientific, Inc. P.O. Box 219 Batavia, IL 60510 (800) 452-1261

CHEMTRAC Emergency Phone Number: (800) 424-9300

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**SECTION 2 — COMPOSITION, INFORMATION ON INGREDIENTS**

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Bismuth nitrate (10035-06-0) 5%, nitric acid (7679-37-2) 19%, and water (7732-18-5) 76%

CAS#: None Established

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**SECTION 3 — HAZARDS IDENTIFICATION**

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Colorless solution with a slight nitric acid odor.

**FLINN AT-A-GLANCE**

Health-1

Flammability-0

Reactivity-0

Exposure-2

Storage-0

0 is low hazard, 3 is high hazard

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**SECTION 4 — FIRST AID MEASURES**

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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 no more than 1-2 cups of water for dilution. Do not induce vomiting. Call a physician or poison control at once.

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**SECTION 5 — FIRE FIGHTING MEASURES**

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Nonflammable solution.

**NFPA CODE**

None  
established

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**SECTION 6 — ACCIDENTAL RELEASE MEASURES**

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Restrict unprotected personnel from the area. Remove all ignition sources and ventilate area. Contain the spill with sand or other inert absorbent material, neutralize with sodium bicarbonate or calcium hydroxide, and deposit in a sealed bag or container. See Sections 8 and 13 for further information.

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**SECTION 7 — HANDLING AND STORAGE**

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Flinn Suggested Chemical Storage Pattern: Inorganic #3. Store with amides, nitrates, and nitrites.

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**SECTION 8 — EXPOSURE CONTROLS, PERSONAL PROTECTION**

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Avoid contact with eyes, skin, and clothing. Wear chemical splash goggles, chemical-resistant gloves, and chemical-resistant apron. This material is corrosive because of the nitric acid content.

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**SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES**

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Colorless solution with a slight nitric acid odor.

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**SECTION 10 — STABILITY AND REACTIVITY**

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Shelf life: Indefinite.

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**SECTION 11 — TOXICOLOGICAL INFORMATION**

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Acute effects: Corrosive.

ORL-RAT LD<sub>50</sub>: N.A.

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.

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**SECTION 12 — ECOLOGICAL INFORMATION**

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Data not yet available.

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**SECTION 13 — DISPOSAL CONSIDERATIONS**

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Please consult with state and local regulations.

Flinn Suggested Disposal Method #26b is one option.

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**SECTION 14 — TRANSPORT INFORMATION**

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Shipping Name: Not regulated

Hazard Class: N/A

UN Number: N/A

N/A = Not applicable

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**SECTION 15 — REGULATORY INFORMATION**

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Not listed.

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**SECTION 16 — OTHER INFORMATION**

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