

# FLINN SCIENTIFIC INC.

"Your Safer Source for Science Supplies"

## Material Safety Data Sheet (MSDS)

MSDS #: 505.10

Revision Date: September 15, 2004

---

### Section 1 — Chemical Product and Company Identification

---

#### Mercury(I) Nitrate Solution

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

---

Mercury(I) Nitrate (7782-86-7) 24%, Nitric Acid (7697-37-2) 24%, and Water (7732-18-5) 52%

CAS#: None Established

---

### Section 3 — Hazards Identification

---

Colorless, odorless solution.

Highly toxic by ingestion and inhalation. Severely corrosive to body tissues. Avoid all body tissue contact.

#### FLINN AT-A-GLANCE

Health-3

Flammability-0

Reactivity-1

Exposure-3

Storage-3

0 is low hazard, 3 is high hazard

---

### Section 4 — First Aid Measures

---

Call a physician, 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 15 minutes.

External: Wash continuously with fresh water for 15 minutes.

Internal: Rinse out mouth, give 1 to 2 cups of water or milk, induce vomiting. Call a physician or poison control at once.

---

### Section 5 — Fire Fighting Measures

---

Non flammable liquid.

When heated to decomposition, emits toxic mercury and NOx fumes.

**Fire Fighting Instructions:** Use triclass, dry chemical fire extinguisher. Firefighters should wear PPE and SCBA with full facepiece operated in positive pressure mode.

#### NFPA CODE

None

Established

---

### Section 6 — Accidental Release Measures

---

Restrict unprotected personnel from area. Sweep up, place in 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 #3. Store with amides, nitrates and nitrites.

Store in a poisons cabinet.

---

### Section 8 — Exposure Controls, Personal Protection

---

Avoid contact with eyes, skin and clothing. Wear chemical splash goggles, chemical-resistant gloves and chemical-resistant apron.

# FLINN SCIENTIFIC INC.

"Your Safer Source for Science Supplies"

## Material Safety Data Sheet (MSDS)

Mercury(II) Nitrate Solution

MSDS #: 505.10

Revision Date: September 15, 2004

### Section 9 — Physical and Chemical Properties

Colorless, odorless solution.  
A solution of mercurous nitrate, nitric acid, and water.  
Concentration: 1.0 molar.

### Section 10 — Stability and Reactivity

Avoid contact with organic materials.  
Shelf life: Indefinite.

### Section 11 — Toxicological Information

Acute effects: Highly toxic, irritant, sensitizer	ORL-RAT LD50: 170 mg/kg as mercury nitrate
Chronic effects: N.A.	IHL-RAT LC50: N.A.
Target organs: N.A.	SKN-RBT LD50: 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 #27b is one option.

### Section 14 — Transport Information

Shipping Name: Mercurous nitrate  
Hazard Class: 6.1 Poison  
UN Number: UN1627

N/A = Not applicable

### Section 15 — Regulatory Information

Not listed.

### Section 16 — Other Information

Consult your copy of the Flinn Scientific Catalog/Reference Manual for additional information about laboratory chemicals. This Material Safety Data Sheet (MSDS) is for guidance and is based upon information and tests believed to be reliable. Flinn Scientific Inc. makes no guarantee of the accuracy or completeness of the data and shall not be liable for any damages relating thereto. The data is offered solely for your consideration, investigation, and verification. Flinn Scientific Inc. assumes no legal responsibility for use or reliance upon this data.

**FLINN SCIENTIFIC INC.**  
"Your Safer Source for Science Supplies"

*Flinn Chemicals--Your Best Choice*

flinn@flinnsci.com www.flinnsci.com  
P.O. Box 219 Batavia IL 60510  
(800) 452-1261 Fax (866) 452-1436