FLINN SCIENTIFIC INC.

"Your Safer Source for Science Supplies"

Material Safety Data Sheet (MSDS)

Section 1 — Chemical Product and Company Identification

Mercury(I) Nitrate

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, dihydrate Synonym: mercurous nitrate

CAS#: 14836-60-3

Section 3 — Hazards Identification

Small, colorless crystals. Faint nitric acid odor. Highly toxic by ingestion and inhalation. Irritating to body tissues. Sensitizer. Avoid all body contact. May explode if heated.

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 solids. Strong oxidant, may explode if heated. Fire hazard when in contact with combustible materials. None Material will sublime and release mercury vapor and toxic fumes of NOx. Fire Fighting Instructions: Use 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 area. Remove all ignition sources and water . 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 cool dry place. Deliquescent, store in Flinn Chem-Saf Bag. Store in a poisons cabinet. Use and dispense in a hood.

Section 8 — Exposure Controls, Personal Protection

Avoid contact with eyes, skin and clothing. Wear chemical splash goggles, chemical-resistant gloves and chemical-resistant apron. Use ventilation to keep airborne concentrations below exposure limits. Always wear a NIOSH-approved respirator with proper cartridges or a positive pressure, air-supplied respirator when handling this material in emergency situations (spill or fire). Exposure guidelines; TWA 0.1 mg/m3 (Hg) (ACGIH)

505.00 MSDS #: **Revision Date:** January 16, 2005

> FLINN AT-A-GLANCE Health-3 Flammability-0 Reactivity-3 Exposure-3 Storage-3

0 is low hazard, 3 is high hazard

NFPA CODE

Established

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Section 9 — Physical and Chemical Properties

Small colorless crystals. Faint nitric acid odor. Solubility: Soluble in small quantities of warm water. Formula: Hg2(NO3)2 2H22O Formula Weight: 561.22

Section 10 — Stability and Reactivity

Avoid contact with strong reducers, neat organic materials protect from light. Material will sublime and release mercury vapor and toxic fumes of NOx. Shelf life: Anhydrous in dry air, sensitive to light; otherwise good.

Section 11 — Toxicological Information

Acute effects: Highly toxic, irritant, sensitizer Chronic effects: Neurotoxic effects, neurological hazards Target organs: Kidneys, nerves, GI system, blood ORL-RAT LD50: 170 mg/kg IHL-RAT LC50: N.A. SKN-RAT LD50: 2330 mg/kg

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 #27f 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

TSCA-listed, RCRA code D001, D009.

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.

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Mercury(I) Nitrate

MSDS #: 505.00 Revision Date: January 16, 2005

Specific Gravity: 4.785 Melting Point: 70 C