

FLINN SCIENTIFIC, INC.

Safety Data Sheet (SDS)

SDS #: 499.00

Revision Date: December 18, 2013

SECTION 1 — CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Mercury(II) Nitrate

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

CHEMTREC Emergency Phone Number: (800) 424-9300

Signal Word **DANGER**

Pictograms



SECTION 2 — HAZARDS IDENTIFICATION

Hazard class: Acute toxicity, oral and inhalation (Category 2). Fatal if swallowed or inhaled (H300+H330). Do not eat, drink or smoke when using this product (P270). Do not breath dust or fumes (P260).

Hazard class: Acute toxicity, dermal (Category 1). Fatal in contact with skin (H310).

Hazard class: Specific target organ toxicity - repeated exposure (Category 2). May cause damage to the kidneys, nerves, gastrointestinal tract, and blood through prolonged or repeated exposure if inhaled, ingested, or absorbed through the skin (H373).

Hazard class: Hazardous to the aquatic environment, acute and chronic toxicity (Category 1). Very toxic to aquatic life with long lasting effects (H410). Avoid release to the environment (P273).

SECTION 3 — COMPOSITION, INFORMATION ON INGREDIENTS

Component Name	CAS Number	Formula	Formula Weight	Concentration
Mercury(II) nitrate monohydrate	7783-34-8	Hg(NO ₃) ₂ ·H ₂ O	342.63	
Synonyms: Mercury pernitrate, Mercuric nitrate, Mercury dinitrate				

SECTION 4 — FIRST AID MEASURES

Immediately call a POISON CENTER or physician (P310).

If inhaled: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.

If on skin: Gently wash with plenty of soap and water (P302 + P350).

If swallowed: Rinse mouth. Call a POISON CENTER or physician if you feel unwell.

SECTION 5 — FIRE FIGHTING MEASURES

Nonflammable solid.

Strong oxidizer; fire hazard when in contact with combustible materials. When heated to decomposition, may emit toxic fumes.

In case of fire: Use a tri-class dry chemical fire extinguisher.

NFPA CODE

H - 4

F - 0

R - 0

SECTION 6 — ACCIDENTAL RELEASE MEASURES

Restrict unprotected personnel from the area. Do not allow solid to become airborne. Ventilate area. Sweep up the spill, place in a sealed bag or container, and dispose. Wash spill site after material pickup is complete. Do not let product enter drains. See Sections 8 and 13 for further information.

SECTION 7 — HANDLING AND STORAGE

Flinn Suggested Chemical Storage Pattern: Inorganic #3. Store with amides, nitrates, nitrites, and azides. Store in a poisons cabinet. Deliquescent. Store in a cool, dry place within a Flinn Chem-Saf™ bag. Use only in a hood or in a well ventilated area (P271).

SECTION 8 — EXPOSURE CONTROLS, PERSONAL PROTECTION

Wear protective gloves, protective clothing, and eye protection (P280). Wash thoroughly after handling (P264). Use only in a hood or in a well ventilated area (P271). Wear respiratory protection (P284).

Exposure guidelines: PEL 0.1 mg/m³ (OSHA), TLV 0.025 mg/m³ (ACGIH) Readily absorbed through the skin.

SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES

Colorless crystals or powder. Odorless.

Melting point: 79 °C

Soluble: Water and nitric acid. Insoluble in alcohol.

Specific gravity: 4.3

SECTION 10 — STABILITY AND REACTIVITY

Avoid contact with acetylene, ethyl alcohol, sulfur, and sodium carbonate. Avoid contact with organic materials.

Shelf life: Poor, deliquescent. See Section 7 for further information.

SECTION 11 — TOXICOLOGICAL INFORMATION

Acute effects: Highly toxic, corrosive

ORL-RAT LD₅₀: 26 mg/kg

Chronic effects: Neurotoxic effects, neurological hazard

IHL-RAT LC₅₀: N.A.

Target organs: Kidneys, GI system, nerves, blood

SKN-RAT LD₅₀: 75 mg/kg

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

SECTION 12 — ECOLOGICAL INFORMATION

Very toxic to aquatic life with long lasting effects. Avoid release into the environment.

SECTION 13 — DISPOSAL CONSIDERATIONS

Please review all federal, state and local regulations that may apply before proceeding.

Flinn Suggested Disposal Method #27f is one option.

SECTION 14 — TRANSPORT INFORMATION

Shipping name: Mercuric Nitrate; Hazard class: 6.1, Poison; UN number: UN1625

N/A = Not applicable

SECTION 15 — REGULATORY INFORMATION

TSCA-listed, EINECS-listed (233-152-3), RCRA code D001, D009.

SECTION 16 — OTHER INFORMATION

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