

FLINN SCIENTIFIC, INC.

Safety Data Sheet (SDS)

SDS #: 498.10

Revision Date: March 25, 2014

SECTION 1 — CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Mercury(II) Iodide Solution

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 mist, vapors or spray (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, gastrointestinal tract, and nerves 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) iodide	7774-29-0	HgI ₂	454.43	4.5%
Water	7732-18-5	H ₂ O	18.00	95.5%

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 so. 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, noncombustible solution.

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

NFPA CODE
None
established

SECTION 6 — ACCIDENTAL RELEASE MEASURES

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 #2. Store with acetates, halides, sulfates, sulfites, thiosulfates and phosphates. Store in a cool, dry place. Protect from light. Store in a Flinn Chem-Saf™ bag. Store in a poisons cabinet. Keep container tightly closed (P233). Use only in a hood or well-ventilated area (P271).

SECTION 8 — EXPOSURE CONTROLS, PERSONAL PROTECTION

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

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

SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES

Red, tetragonal crystals. Odorless.

Soluble: Boiling alcohol and solutions of sodium thiosulfate or potassium iodide. Insoluble in water.

Boiling point: 354 °C

Melting point: 259 °C

Specific gravity: 6.28

SECTION 10 — STABILITY AND REACTIVITY

Avoid strong oxidizing and reducing agents.

Shelf life: Good, if stored properly.

SECTION 11 — TOXICOLOGICAL INFORMATION

Acute effects: Highly toxic, severe irritant

Chronic effects: Neuro toxic effects, neurological hazard

Target organs: Kidneys, GI system, nerves

ORL-RAT LD₅₀: 18 mg/kg for mercury(II) iodide

IHL-RAT LC₅₀: N.A.

SKN-RAT LD₅₀: 75 mg/kg for mercury(II) iodide

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: Mercury Iodide; Hazard class: 6.1, Poison; UN number: UN1638

N/A = Not applicable

SECTION 15 — REGULATORY INFORMATION

TSCA-listed, EINECS-listed (231-873-8), RCRA code 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.

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