

FLINN SCIENTIFIC, INC.

Safety Data Sheet (SDS)

SDS #: 506.00

Revision Date: March 25, 2014

SECTION 1 — CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Mercury

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: Corrosive to metals (Category 1). May be corrosive to metals (H290).

Hazard class: Acute toxicity, inhalation (Category 1). Fatal if inhaled (H330). Do not breathe fumes (P260).

Hazard class: Reproductive toxicity (Category 1B). May damage fertility of the unborn child (H360). Obtain special instructions before use (P201). Do not handle until all safety precautions have been read and understood (P202). Use personal protective equipment as required (P281).

Hazard class: Specific target organ toxicity, repeated exposure (Category 1). Causes damage to the kidneys and central nervous system through prolonged or repeated exposure if inhaled or absorbed through the skin (H372). Do not eat, drink or smoke when using this product (P270).

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

SECTION 3 — COMPOSITION, INFORMATION ON INGREDIENTS

Component Name	CAS Number	Formula	Formula Weight	Concentration
Mercury	7439-97-6	Hg	200.59	
Synonyms: Quicksilver, Hydragryum				

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 (P304+P330).

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do so. Continue rinsing (P305+P351+P338).

If on skin: Wash with plenty of water.

If swallowed: Immediately call a POISON CENTER or physician if you feel unwell (P301 + P310).

SECTION 5 — FIRE FIGHTING MEASURES

Noncombustible liquid.

When heated to decomposition, may emit toxic fumes.

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

NFPA CODE
None
established

SECTION 6 — ACCIDENTAL RELEASE MEASURES

Absorb spills to prevent material damage (P390). Spillage may be a toxic hazard due to proliferation of droplets. Cleanup requires special care. Immediately ventilate the area and clean up large droplets. Transfer to a safe container and use zinc dust to amalgamate remaining mercury. Never use a brush, broom or vacuum to clean up mercury as this will disperse toxic mercury

SECTION 7 — HANDLING AND STORAGE

Flinn Suggested Chemical Storage Pattern: Inorganic #1. Store with metals and metal hydrides. Keep only in original container (P234). Keep container tightly closed (P233). Enclose glass or plastic container with mercury in a Flinn Chem-Saf™ bag to prevent spills. Dispense mercury in a plastic tray to contain spills. Use only in a hood or well-ventilated area (P271).

SECTION 8 — EXPOSURE CONTROLS, PERSONAL PROTECTION

Wear protective gloves, protective clothing, and eye protection. Wash hands thoroughly after handling (P264). Use only in a hood or 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

Silver color, very heavy liquid metal. Odorless.

Soluble: Soluble in liquids and nitric acid. Insoluble in water, alcohol, and ether.

Boiling point: 356.72 °C

Melting point: -38.85 °C

Specific gravity: 13.59

SECTION 10 — STABILITY AND REACTIVITY

Avoid ammonia, aluminum, potassium, lithium, sodium, bromine, halogens, sulfuric acid, oxidizing agents, and nitric acid.

Shelf life: Good, if stored properly.

SECTION 11 — TOXICOLOGICAL INFORMATION

Acute effects: Corrosive bronchitis and CNS effects such as tremors and excitability. ORL-MAN TDL₀: 43 mg/kg

Chronic effects: Tremors, depression and delirium; thyroid enlargement, tachycardia, and hematologic changes.

Target organs: Respiratory system, CNS, kidneys, eyes

IHL-RAT LCL₀: 0.15 mg/m³

SKN-RBT LD₅₀: N.A.

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.

SECTION 13 — DISPOSAL CONSIDERATIONS

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

Returning mercury to a mercury recycler is one option.

SECTION 14 — TRANSPORT INFORMATION

Shipping name: Mercury. Hazard class: 8, Corrosive. UN number: UN2809.

N/A = Not applicable

SECTION 15 — REGULATORY INFORMATION

TSCA-listed. EINECS-listed, RCRA U151.

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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