

FLINN SCIENTIFIC INC.

"Your Safer Source for Science Supplies"

Material Safety Data Sheet (MSDS)

MSDS #: 506.00

Revision Date: November 25, 2002

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

Section 2 — Composition, Information on Ingredients

Mercury

Synonym: quicksilver, hydragyrum

CAS#: 7439-97-6

Section 3 — Hazards Identification

Silvery, very heavy metallic liquid. Odorless.

Highly toxic by ingestion, skin absorption and inhalation of fume or vapor. Absorbed by respiratory and intestinal tract. Corrosive to skin, eyes and mucous membranes.

FLINN AT-A-GLANCE

Health-3
Flammability-0
Reactivity-1
Exposure-3
Storage-1

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. After vomiting, give mixture of 2 Tbs. of activated charcoal mixed with one cup of water. Call a physician or poison control at once.

Section 5 — Fire Fighting Measures

Non combustible liquid.

When heated to decomposition, emits toxic fumes of Hg.

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

Spillage may be a toxic hazard because of proliferation of droplets. Cleanup requires special care. Clean up all droplets and transfer to a safe container. Use zinc dust to amalgamate the mercury into a solid. Ventilate and wash the area in which the spill occurs.

Section 7 — Handling and Storage

Flinn Suggested Chemical Storage Pattern: Inorganic #1. Store with metals and metal hydrides.

Dispense mercury in a plastic tray so that spillage can easily be recovered. Enclose the glass or plastic container with the mercury in a Flinn Chem-Saf bag. This will eliminate the mercury from easily escaping.

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: STEL 0.03d mg/m³; ceiling 0.1 mg/m³ (NIOSH, ACGIH)

Section 9 — Physical and Chemical Properties

Silvery, very heavy liquid, metal. Odorless.

Solubility: Soluble in liquids. Soluble in nitric acids.

Insoluble in water, alcohol, and ether.

Formula: Hg

Formula Weight: 200.59

Specific Gravity: 13.59

Melting Point: -38.85 C

Boiling Point: 3569 C

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: Highly toxic, corrosive

Chronic effects: N.A.

Target organs: Skin, respiratory system, CNS, kidneys, eyes

ORL-RAT LD50: N.A.

IHL-RAT LC50: 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.

Returning mercury to a mercury reprocessor 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

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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