
Section 1 — Chemical Product and Company Identification

Mercuric Chloride Solution

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

CHEMTRAC Emergency Phone Number: (800) 424-9300

Section 2 — Composition, Information on Ingredients

Mercuric Chloride ((7487-94-7) 3%, and Water (7732-18-5) 97%.

CAS#: None established

Section 3 — Hazards Identification

Clear, colorless, odorless liquid.

Severely toxic by ingestion, inhalation or skin absorption. May be fatal! Orl-rat LD50: 1 mg/kg.

Avoid all body contact.

FLINN AT-A-GLANCE

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

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 flammable, non combustible solid.

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

Restrict unprotected personnel from area and ventilate area. Contain spill with sand or absorbent material; deposit in sealed bag or container. 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. Use and dispense in a hood and protect from light. Store in a poisons cabinet.

Use all precautions when handling this substance.

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)

Material Safety Data Sheet (MSDS)

Section 9 — Physical and Chemical Properties

Clear, colorless, odorless liquid.

Solubility: Soluble in water and alcohol.

Formula: HgCl₂

Formula Weight: 271.50

Section 10 — Stability and Reactivity

Avoid contact with oxidizers, strong bases.

Shelf life: Good, if stored safely.

Section 11 — Toxicological Information

Acute effects: Highly toxic, corrosive, stomach pains, vomiting, diarrhea.

ORL-RAT LD50: 1 mg/kg as mercury chloride

Chronic effects: Neurotoxic effects, possible mutagen, neurological hazard.

IHL-RAT LC50: N.A.

Target organs: Kidneys, G.I. system, nerves

SKN-RAT LD50: 41 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: Mercuric chloride

Hazard Class: 6.1, poison

UN Number: UN1624

N/A = Not applicable

Section 15 — Regulatory Information

TSCA-listed, EINECS-listed (231-299-8), RCRA code 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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