

FLINN SCIENTIFIC, INC.

Safety Data Sheet (SDS)

SDS #: 497.00

Revision Date: March 25, 2014

SECTION 1 — CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Mercury(II) Chloride

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, dermal (Category 1). Fatal if swallowed or in contact with skin (H300+H310). Do not eat, drink or smoke when using this product (P270).

Hazard class: Skin and eye damage, corrosion or irritation (Category 1B). Causes severe skin burns and eye damage (H314).

Hazard class: Specific target organ toxicity - repeated exposure (Category 1) Causes damage to the kidneys, nerves, and gastrointestinal tract through prolonged or repeated exposure in ingested or absorbed through the skin (H372).

Hazard class: Reproductive toxicity (Category 2). Suspected of damaging fertility or the unborn child (H361). 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: 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) chloride	7487-94-7	HgCl ₂	271.50	
Synonyms: Mercuric chloride; Mercury dichloride				

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 (P305+P351+P338).

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.

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

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 #2. Store with acetates, halides, sulfates, sulfites, thiosulfates and phosphates. Use and dispense in a hood and protect from light. Store in a Flinn Chem-Saf™ bag. Store in a poisons cabinet.

Use all precautions when handling this substance. Use only in a hood or well-ventilated area (P271). Keep container tightly closed (P233). Keep only in original container (P234).

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).

SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES

White crystal or powder. Odorless.

Soluble: Water and alcohol

Boiling point: 302 °C

Melting point: 276 °C

Specific gravity: 5.44

SECTION 10 — STABILITY AND REACTIVITY

Avoid contact with oxidizers and strong bases.

Shelf life: Good, if stored properly.

SECTION 11 — TOXICOLOGICAL INFORMATION

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

Chronic effects: Neurotoxic effects, possible mutagen, neurological

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

ORL-RAT LD₅₀: 1 mg/kg

IHL-RAT LC₅₀: N.A.

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

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 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

This Safety Data Sheet (SDS) 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. The data should not be confused with local, state, federal or insurance mandates, regulations, or requirements and CONSTITUTE NO WARRANTY. Any use of this data and information must be determined by the science instructor to be in accordance with applicable local, state or federal laws and regulations. The conditions or methods of handling, storage, use and disposal of the product(s) described are beyond the control of Flinn Scientific, Inc. and may be beyond our knowledge. FOR THIS AND OTHER REASONS, WE DO NOT ASSUME RESPONSIBILITY AND EXPRESSLY DISCLAIM LIABILITY FOR LOSS, DAMAGE OR EXPENSE ARISING OUT OF OR IN ANY WAY CONNECTED WITH THE HANDLING, STORAGE, USE OR DISPOSAL OF THIS PRODUCT(S).

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

Revision Date: March 25, 2014