

# FLINN SCIENTIFIC, INC.

## Safety Data Sheet (SDS)

SDS #: 497.00

Revision Date: December 18, 2013

### 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: Acute toxicity, oral (Category 2). Fatal if swallowed or in contact with skin (H300 + H310).

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 <sub>2</sub> | 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. 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.

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**SECTION 7 — HANDLING AND STORAGE**

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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 in a well ventilated area (P271). Keep container tightly closed (P233). Keep only in original container (P234).

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**SECTION 8 — EXPOSURE CONTROLS, PERSONAL PROTECTION**

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

Exposure guidelines: PEL 0.1 mg/m<sup>3</sup> (OSHA), TLV 0.025 mg/m<sup>3</sup> (ACGIH) Readily absorbed through the skin.

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**SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES**

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White crystal or powder. Odorless.

Soluble: Water and alcohol

Boiling point: 302 °C

Melting point: 276 °C

Specific gravity: 5.44

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**SECTION 10 — STABILITY AND REACTIVITY**

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Avoid contact with oxidizers and strong bases.

Shelf life: Good, if stored properly.

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**SECTION 11 — TOXICOLOGICAL INFORMATION**

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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 LD<sub>50</sub>: 1 mg/kg

IHL-RAT LC<sub>50</sub>: N.A.

SKN-RAT LD<sub>50</sub>: 41 mg/kg

N.A. = Not available, not all health aspects of this substance have been fully investigated.

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**SECTION 12 — ECOLOGICAL INFORMATION**

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Very toxic to aquatic life with long lasting effects. Avoid release into the environment.

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**SECTION 13 — DISPOSAL CONSIDERATIONS**

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

Flinn Suggested Disposal Method #27f is one option.

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**SECTION 14 — TRANSPORT INFORMATION**

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Shipping name: Mercuric chloride; Hazard class: 6.1, poison; UN number: UN1624

N/A = Not applicable

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**SECTION 15 — REGULATORY INFORMATION**

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TSCA-listed, EINECS-listed (231-299-8), RCRA code D009.

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**SECTION 16 — OTHER INFORMATION**

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