

FLINN SCIENTIFIC, INC.

Safety Data Sheet (SDS)

SDS #: 504.00

Revision Date: March 25, 2014

SECTION 1 — CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Mercury(I) 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, oral and dermal (Category 3). Toxic if swallowed or in contact with skin (H301 +H312). Do not eat, drink or smoke when using this product (P270).

Hazard class: Skin and serious eye damage, corrosion or irritation (Category 2, 2A). Causes skin and serious eye irritation (H315+H319).

Hazard class: Sensitization, respiratory (Category 1). May cause allergy or asthma symptoms or breathing difficulties if inhaled (H334). Avoid breathing dust or fumes (P261).

Hazard class: Hazardous to the aquatic environment, acute toxicity (Category 1). Very toxic to aquatic life (H400). Avoid release to the environment (P273).

SECTION 3 — COMPOSITION, INFORMATION ON INGREDIENTS

| Component Name | CAS Number | Formula | Formula Weight | Concentration |
|---------------------------------------|------------|---------|----------------|---------------|
| Mercury(I) chloride | 10112-91-1 | HgCl | 236.07 | |
| Synonyms: Calomel; Mercurous chloride | | | | |

SECTION 4 — FIRST AID MEASURES

Call a POISON CENTER or physician if you feel unwell.

If inhaled: Remove victim to fresh air and keep at rest in a position comfortable for breathing. **If experiencing respiratory symptoms:** Call a POISON CENTER or physician (P342 + P311).

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

If on skin: Wash with plenty of water.

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

SECTION 5 — FIRE FIGHTING MEASURES

Noncombustible solid.

When heated to decomposition, may emit toxic fumes.

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

NFPA CODE

H - 2

F - 0

R - 1

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. Light sensitive. Store in a cool, dry place away from light. Store in poisons cabinet. Use only in a hood or well-ventilated area (P271).

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).

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

White powder. Darkens on exposure to light. Odorless.
Soluble: Insoluble in water, dilute acids, alcohol, and ether.

Melting point: 302 °C
Specific gravity: 6.993

SECTION 10 — STABILITY AND REACTIVITY

Avoid contact with strong oxidizing and reducing agents. Decomposed by alkalis.

Shelf life: Good, darkens on exposure to light.

SECTION 11 — TOXICOLOGICAL INFORMATION

Acute effects: Toxic, irritant

ORL-RAT LD₅₀: 210 mg/kg

Chronic effects: Neurotoxic effects, possible mutagen, neurological

IHL-RAT LC₅₀: N.A.

Target organs: Kidneys, nerves

SKN-RAT LD₅₀: 1500 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. 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: Mercury compounds, solid, N.O.S.; Hazard class: 6.1, Poison; UN number: UN2025

N/A = Not applicable

SECTION 15 — REGULATORY INFORMATION

TSCA-listed, EINECS-listed (233-307-5), RCRA code D009.

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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