



Registered Off. : 101-A, Deep Enclave, Pocket 'D', Ashok Vihar, Phase-III, Delhi-110 052 (India)
Corporate Off. : 152, Vardhman City Centre, Near Shakti Nagar Underbridge, Delhi-110052 (India)
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MERCUROUS CHLORIDE

1. Product Identification

Synonyms: Calomel; Calogreen; Mercury Monochloride; Mercury Chloride

CAS No.: 10112-91-1

Molecular Weight: 472.09

Chemical Formula: Hg_2Cl_2

Product Codes: 32162

2. Composition/Information on Ingredients

Ingredient	CAS No	Percent
Mercurous Chloride	10112-91-1	90 - 100%

3. Hazards Identification

Potential Health Effects

Inhalation: Causes irritation to the respiratory tract. Symptoms include sore throat, coughing, pain, tightness in chest, breathing difficulties, shortness of breath and headache.

Ingestion: Toxic! May cause burning of the mouth and pharynx, abdominal pain, vomiting, bloody diarrhea. May be followed by a rapid and weak pulse, shallow breathing, paleness, exhaustion, tremors and collapse.

Skin Contact: Causes irritation. Symptoms include redness and pain. May cause burns. May cause sensitization. Can be absorbed through the skin with symptoms to parallel ingestion.

Eye Contact: Causes irritation to eyes, may cause burns and eye damage.

Chronic Exposure: Chronic exposure through any route can produce central nervous system damage. May cause muscle tremors, personality and behavior changes, memory loss, metallic taste, loosening of the teeth, digestive disorders, skin rashes, brain damage and kidney damage.

Aggravation of Pre-existing Conditions: Persons with nervous disorders, or impaired kidney or respiratory function, or a history of allergies or a known sensitization to mercury may be more susceptible to the effects of the substance.

4. First Aid Measures

Inhalation: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

Ingestion: Induce vomiting immediately as directed by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention.

Skin Contact: Immediately flush skin with plenty of water for at least 15 minutes. Remove contaminated clothing and shoes. Get medical attention. Wash clothing before reuse. Thoroughly clean shoes before reuse.

Eye Contact: Immediately flush eyes with plenty of water for at least 15 minutes, lifting lower and upper eyelids occasionally. Get medical attention immediately.

5. Fire Fighting Measures

Fire: Not considered to be a fire hazard.

Explosion: Not considered to be an explosion hazard.

Fire Extinguishing Media: Water, dry chemical, foam or carbon dioxide. Do not allow water runoff to enter sewers or waterways.

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Special Information: In the event of a fire, wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full facepiece operated in the pressure demand or other positive pressure mode.

6. Accidental Release Measures

Ventilate area of leak or spill. Clean-up personnel require protective clothing and respiratory protection from dust.

Spills: Pick up and place in a suitable container for reclamation or disposal in a method that does not generate dust. Sprinkle area with sulfur or calcium polysulfide to suppress mercury.

7. Handling and Storage

Keep in a tightly closed container, stored in a cool, dry, ventilated area. Protect against physical damage. Isolate from any source of heat or ignition. Protect from light. Follow strict hygiene practices. Containers of this material may be hazardous when empty since they retain product residues (dust, solids); observe all warnings and precautions listed for the product.

8. Exposure Controls/Personal Protection

Ventilation System: A system of local and/or general exhaust is recommended to keep employee exposures below the Airborne Exposure Limits. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source, preventing dispersion of it into the general work area.

Personal Respirators (NIOSH Approved): If the exposure limit is exceeded, a half-face dust/mist respirator may be worn for up to ten times the exposure limit or the maximum use concentration specified by the appropriate regulatory agency or respirator supplier, whichever is lowest. A full-face piece dust/mist respirator may be worn up to 50 times the exposure limit, or the maximum use concentration specified by the appropriate regulatory agency, or respirator supplier, whichever is lowest. For emergencies or instances where the exposure levels are not known, use a full-facepiece positive-pressure, air-supplied respirator.

Skin Protection: Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls, as appropriate, to prevent skin contact.

Eye Protection: Use chemical safety goggles and/or full face shield where dusting or splashing of solutions is possible. Maintain eye wash fountain and quick-drench facilities in work area.

9. Physical and Chemical Properties

Appearance: Heavy, white powder.

Odor: Odorless.

Solubility: Negligible.

Specific Gravity: 7.15

pH: No information found.

% Volatiles by volume @ 21C (70F): 0

Boiling Point: 384C (723F)

Melting Point: 400 - 500C (752 - 932F) (sublimes without melting)

Vapor Density (Air=1): No information found.

Vapor Pressure (mm Hg): No information found.

Evaporation Rate (BuAc=1): No information found.

10. Stability and Reactivity

Stability: Stable under ordinary conditions of use and storage. Slowly decomposed by sunlight into mercuric chloride and metallic mercury.

Hazardous Decomposition Products: Oxides of the contained metal and halogen, possibly also free, or ionic halogen.

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Hazardous Polymerization: Will not occur.

Incompatibilities: Bromides, iodides, ammonia, alkalis, cyanides, chlorides, copper and lead salts, silver salts, carbonates, sulfides, soap, lime water, iodoform, and hydrogen peroxide.

Conditions to Avoid: Light and incompatibles.

11. Toxicological Information

Toxicological Data: Oral rat LD50: 210 mg/kg.

Reproductive Toxicity: All forms of mercury can cross the placenta to the fetus, but most of what is known has been learned from experimental animals.

12. Ecological Information

Environmental Fate:

For mercury: This material has an experimentally-determined bioconcentration factor (BCF) of greater than 100. This material is expected to significantly bioaccumulate.

Environmental Toxicity: The LC50/96-hour values for fish are less than 1 mg/l.

13. Disposal Considerations

Dispose of container and unused contents in accordance with federal, state and local requirements.

14. Transport Information

Land

Proper Shipping Name: MERCUROUS CHLORIDE

Hazard Class: 6.1

UN/NA: UN2025

Packing Group: III

Information reported for product/size: 500G

Water

Proper Shipping Name: MERCUROUS CHLORIDE

Hazard Class: 9

UN/NA: UN3077

Packing Group: III

Information reported for product/size: 500G

Air

Proper Shipping Name: MERCUROUS CHLORIDE

Hazard Class: 6.1

UN/NA: UN2025

Packing Group: III

Information reported for product/size: 500G

15. Regulatory Information

SARA 311/312: Acute: Yes Chronic: Yes Fire: No Pressure: No

Reactivity: No (Pure / Solid)

16. Other Information

Product Use: Laboratory Reagent.

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