

# MATERIAL SAFETY DATA SHEET

24 HR. EMERGENCY PHONE # CHEM-TREC 1-800-424-9300

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## SECTION 1 Product Identification

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**CHEMICAL NAME:** MERCURY (I) CHLORIDE  
**CAS #:** 10112-91-1  
**FORMULA:** Hg<sub>2</sub>Cl<sub>2</sub>

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## SECTION 2 Composition and Information on Ingredients

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INGREDIENT:	CAS #	%	ACGIH (TWA)	OSHA (PEL)
Title Compound	10112-91-1	100	0.1mg/m <sup>3</sup>	0.1mg/m <sup>3</sup>

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## SECTION 3 Hazards Identification

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**EMERGENCY OVERVIEW:** HIGHLY TOXIC by ingestion, inhalation. Harmful if swallowed. Irritating to eyes, skin and respiratory system.

**PRIMARY ROUTES OF EXPOSURE:** Ingestion, inhalation

**EYE CONTACT:** Dust causes severe irritation of the eyes.

**SKIN CONTACT:** Causes irritation of the skin.

**INHALATION:** Irritating to mucous membranes and upper respiratory tract.

**INGESTION:** Harmful if swallowed.

**CHRONIC HEALTH EFFECTS:** Nerotoxic effects, possible mutagen., neurological hazard.

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## SECTION 4 First Aid Measures

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**EYE EXPOSURE:** Immediately flush the eyes with copious amounts of water for at least 15 minutes. Assure flushing under eyelids. A victim may need assistance in keeping their eyelids open. Get immediate competent medical attention.

**SKIN EXPOSURE:** Wash affected area with water. Remove contaminated clothes if necessary. Seek medical assistance if irritation persists.

**INHALATION:** Remove the victim to fresh air. Closely monitor the victim for signs of respiratory problems, such as difficulty in breathing, coughing, wheezing, or pain. In such cases seek immediate medical assistance.

**INGESTION:** Seek medical assistance immediately. Keep the victim calm. Give the victim water (only if conscious). Induce vomiting only if directed by medical personnel.

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## **SECTION 5                      Firefighting Measures**

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**FLASH POINT:** not applicable

**AUTO IGNITION TEMPERATURE:** not applicable

**EXPLOSION LIMITS:** not applicable

**EXTINGUISHING MEDIUM:** Use triclass, dry chemical.

**SPECIAL FIREFIGHTING PROCEDURES:** If involved in a fire, fire fighters should be equipped with a NIOSH approved positive pressure self-contained breathing apparatus and full protective clothing.

**HAZARDOUS COMBUSTION AND DECOMPOSITION PRODUCTS:** May emit toxic fumes of Hg and HCL.

**UNUSUAL FIRE OR EXPLOSION HAZARDS:** no data

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## **SECTION 6                      Accidental Release Measures**

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**SPILL AND LEAK PROCEDURES:** In the case of a spill, evacuate area, wear adequate protective gear, sweep up and place in a well-marked container for disposal. Avoid raising dust. Ventilate area.

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## **SECTION 7                      Handling and Storage**

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**HANDLING AND STORAGE:** Store material in a tightly sealed container . Store in a cool, dry area. Protect from light. Material is light sensitive.

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## **SECTION 8                      Exposure Controls and Personal Protection**

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**EYE PROTECTION:** Always wear approved safety glasses w/side shields, or safety goggles, face shield when handling a chemicals substance in the laboratory.

**SKIN PROTECTION:** Chemical-resistant.

**VENTILATION:** If possible, handle the material in an efficient fume hood.

**RESPIRATOR:** If in form of fine dust and ventilation is not available a respirator should be worn. The use of respirators requires a Respirator Protection Program to be in compliance with 29 CFR 19-10.134.

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## **SECTION 9                      Physical and Chemical Properties**

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**COLOR AND FORM:** white odorless powder

**MOLECULAR WEIGHT:** 472.09

**MELTING POINT (DEG. C.):** 400 (sublimes)

**BOILING POINT:** no data

**VAPOR PRESSURE:** not applicable

**SPECIFIC GRAVITY:** 7.15

**SOLUBILITY IN WATER:** 0.0023 g/l (220deg. C.)

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## **SECTION 10                    Stability and Reactivity**

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**STABILITY:** stable

**HAZARDOUS POLYMERIZATION:** will not occur

**CONDITIONS TO AVOID:** light sensitive

**INCOMPATIBILITY:** Strong oxidizing and reducing agents.  
**DECOMPOSITION PRODUCTS:** Toxic fumes of Hg and HCl

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## **SECTION 11 Toxicological Information**

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**MUTAGENIC EFFECTS:** no data  
**TETRATOGENIC EFFECTS:** no data  
**CARCINOGENIC EFFECTS:** no data

To the best of our knowledge the toxicological effects of this compound have not been fully investigated.

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## **SECTION 12 Ecological Information**

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**ECOLOGICAL INFORMATION:** Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

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## **SECTION 13 Disposal Considerations**

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**DISPOSAL:** Dispose of in according to local state and federal regulations.

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## **SECTION 14 Transportation Information**

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(Mercury chloride), Class. 6..1 UN2025, PG II

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## **SECTION 15 Regulatory Information**

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**TSCA:** Listed in the TSCA inventory  
**SARA (TITLE 313):** Title compound listed

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## **SECTION 16 Other Information**

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**DISCLAIMER:** The information herein is believed to be accurate and reliable as of the date compiled. However, ProChem, Inc. makes no representation, warranty, or guarantee of any kind with respect to the information in this document or any use of the product based on the information.

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