

MATERIAL SAFETY DATA SHEET

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

Manufacturer: ProChem, Inc.
826 Roosevelt Road
Rockford, IL 61109

Phone: (815) 398-1788
Fax: (815) 398-1810
E-Mail: Prochem1@aol.com

SECTION 1 Product Identification

CHEMICAL NAME: Mercury (II) chloride
CAS #: 7487-94-7
FORMULA: HgCl₂
SYNONYM: Bichloride of mercury, Dichloromercury, Mercury dichloride

SECTION 2 Composition and Information on Ingredients

INGREDIENT:	CAS #	%	ACGIH (TWA)	OSHA (PEL)
Title Compound	7487-94-7	100	0.25mg/m ³ (as Hg)	0.05mg/m ³ (as Hg)

SECTION 3 Hazards Identification

EMERGENCY OVERVIEW: Very toxic if swallowed. Toxic by inhalation and in contact with skin. Irritating to skin, eyes and respiratory tract. Prolonged exposure may cause heritable genetic damage and impaired fertility.

PRIMARY ROUTES OF EXPOSURE: Ingestion, skin, Inhalation of dust.

EYE CONTACT: Causes mild to severe irritation of the eyes. May deposit mercury in the lens of the eye.

SKIN CONTACT: Causes mild to severe irritation of the skin. Toxic in contact with skin.

INHALATION: : Toxic by inhalation. Dust will cause severe respiratory and gastrointestinal distress, and may damage the central nervous system.

INGESTION: Very toxic if swallowed. lack of appetite, abdominal cramps, vomiting, kidney failure, paralysis. Mercury binds to thiol groups of protein.

CHRONIC HEALTH EFFECTS: The chronic effects of mercury poisoning include stomatitis, tremors, psychic disturbances, excessive salivation, dermatitis, and pain on chewing. May cause heritable genetic damage and impair fertility.

ACUTE HEALTH EFFECTS: Irritating to skin, eyes and respiratory tract. Poison. May cause stomach upset and pain, vomiting, excessive salivation, urine production stops, urine products in blood and ataxia (difficulty in moving).

SECTION 4 First Aid Measures

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.

SECTION 5 Firefighting Measures

FLASH POINT: not applicable

AUTO IGNITION TEMPERATURE: none

EXPLOSION LIMITS: none

EXTINGUISHING MEDIUM: None. Material is nonflammable

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: If involved in a fire this material may emit corrosive fumes of mercury compounds.

UNUSUAL FIRE OR EXPLOSION HAZARDS: No unusual fire or explosion hazards.

SECTION 6 Accidental Release Measures

SPILL AND LEAK PROCEDURES: To avoid raising dust, small spills may be mixed with diatomaceous earth, sand, vermiculite or other suitable inert material and swept up.

SECTION 7 Handling and Storage

HANDLING AND STORAGE: Store material in a tightly sealed container.

SECTION 8 Exposure Controls and Personal Protection

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.

SECTION 9 Physical and Chemical Properties

COLOR AND FORM: white powder

MOLECULAR WEIGHT: 271.5

MELTING POINT (DEG. C.): none

BOILING POINT: 302°

VAPOR PRESSURE: no data

SPECIFIC GRAVITY: 5.44

SOLUBILITY IN WATER: 6.9g/100 cc(20°C)

SECTION 10 Stability and Reactivity

STABILITY: air and moisture stable

HAZARDOUS POLYMERIZATION: no hazardous polymerization
CONDITIONS TO AVOID: none
INCOMPATIBILITY: active metals
DECOMPOSITION PRODUCTS: none

SECTION 11 Toxicological Information

RTECS DATA: Administration onto the skin (rabbit); Standard Draize test: 500 mg/24H. Oral (human-man); TDLo: 57 mg/kg. Oral (human-man); TDLo: 21 mg/kg. Oral (human-man); IDLo: 86 mg/kg. Oral (human-woman); TDLo: 18 mg/kg. Oral (human-woman); TDLo: 50 mg/kg. Oral (human); TDLo: 29 mg/kg. Oral (human-man); TDLo: 29 mg/kg. Oral (rat); LD50: 1 mg/kg. Administration onto the skin (rat); LD50: 41 mg/kg. Intraperitoneal (rat); LD50: 3210 ug/kg. Subcutaneous (rat); LD 5014 mg/kg. Intravenous (rat); LD50: 1272 ug/kg. Oral (rat); TDLo: 412 mg/kg/61D-C. Oral (rat); TDLo: 592 mg/kg/50W-C. Inhalation (rat); TCLo: 2720 ng/m³/24H. Human lymphocyte; Micronucleus test: 5 umol/iL.

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.

SECTION 12 Ecological Information

ECOLOGICAL INFORMATION: No information available

SECTION 13 Disposal Considerations

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

SECTION 14 Transportation Information

Mercuric chloride, Class 6.1, UN 1624, PG II

SECTION 15 Regulatory Information

TSCA: Listed in the TSCA inventory

SARA (TITLE 313): Title compound : See category N458 for reporting.

SECTION 16 Other Information

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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