

PRMI

# MATERIAL SAFETY DATA SHEET

24 Hr. Emergency Phone No: 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:** CHLOROPLATINIC ACID

**PRODUCT NO:** 1458-2

**CAS#:** 16941-12-1

**FORMULA:** H<sub>2</sub>PtCl<sub>6</sub>.6H<sub>2</sub>O

**SYNONYM:** Hexachloroplatinic Acid,, Hexahydrate, Platinic Chloride

---

## SECTION 2 Composition and Information on Ingredients

---

INGREDIENT:	CAS#	%	ACGIH (TWA)	OSHA (PEL)
Title Compound	16941-12-1	100	0.002 mg/m <sup>3</sup>	0.002 mg/m <sup>3</sup>

---

## SECTION 3 Hazards Identification

---

**EMERGENCY OVERVIEW:** CORROSIVE. Severe irritant by inhalation, on contact with skin and eyes.

**PRIMARY ROUTES OF EXPOSURE:** Contact with skin and eyes. Inhalation of dust.

**EYE CONTACT:** Causes severe irritation of the eyes, pain, blurred vision.

**SKIN CONTACT:** Causes severe irritation, itching, redness, blistering.

**INHALATION:** Causes severe irritation by inhalation, coughing, allergic reaction.

**INGESTION:** No Data

**CHRONIC HEALTH EFFECTS:** Chemical pneumonitis by inhalation, corneal burns to eyes.

---

## SECTION 4 First Aid Measures

---

**EYE EXPOSURE:** Immediately flush the eyes with copious amounts of water (lukewarm if possible) for 10-15 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 soap and copious amounts of water. Remove contaminated clothes if necessary. Seek medical assistance if irritation or redness persists.

**INHALATION:** Remove 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:** DO NOT INDUCE VOMITING. Allow victim to rinse mouth out with water provided victim is conscious. Seek immediate medical attention.

## SECTION 5

## Firefighting Measures

---

**FLASH POINT:** Not applicable

**AUTOIGNITION TEMPERATURE:** Not applicable.

**EXPLOSION LIMITS:** Not applicable

**EXTINGUISHING MEDIUM:** Use water spray.

**SPECIAL FIREFIGHTING PROCEDURES:** No special fire-fighting procedures required. Use normal conditions which include wearing NIOSH/MSHA approved self-contained breathing apparatus, flame and chemical resistant clothing, hats, boots and gloves.

**HAZARDOUS COMBUSTION AND DECOMPOSITION PRODUCTS:** Hydrogen chloride, chlorine

**UNUSUAL FIRE OR EXPLOSION HAZARDS:** None known

---

## SECTION 6

## Accidental Release Measures

---

**SPILL AND LEAK PROCEDURES:** Keep unprotected persons away. Wear appropriate respiratory and protective equipment to avoid exposure with material, sweep up avoiding raising dust and place in a well-marked container for disposal.

---

## SECTION 7

## Handling and Storage

---

**HANDLING AND STORAGE:** Hygroscopic. Picks up moisture readily from atmosphere. Store in a tightly sealed container. Store in cool, dry conditions. Keep away from heat, moisture and light. Store away from incompatibles. **CORROSIVE** Avoid contact with skin, eyes. Do not breathe dust. Use with adequate ventilation.

---

## SECTION 8

## Exposure Controls and Personal Protection

---

**EYE PROTECTION:** Always wear approved safety glasses w/side shields, or safety goggles, faceshield when handling a chemical's substance in the laboratory.

**SKIN PROTECTION:** Chemical-resistant.

**VENTILATION:** Chemical fume hood.

**RESPIRATOR:** OSHA respirator as found in 29 CFR 1910.134

**ADDITIONAL PROTECTION:** Protection to avoid contact with skin, eyes, clothing.

Safety shower, eyewash in area. Use in a controlled environment. Do not eat, drink or smoke in area.

**CORROSIVE.** Avoid contact with skin, eyes. Do not breathe dust. Can cause burns to eyes. Causes severe irritation to nose, throat, upper respiratory tract.

---

## SECTION 9

## Physical and Chemical Properties

---

**COLOR AND FORM:** Brownish yellow to orange to red powder

**MOLECULAR WEIGHT:** 517.90

**MELTING POINT (DEG. C.):** 60 (Decomposes)

**BOILING POINT:** 115 (Decomposes)

**VAPOR PRESSURE:** Not applicable

**VAPOR DENSITY (AIR = 1):** Not applicable

**SPECIFIC GRAVITY:** 2.43

**SOLUBILITY IN WATER:** Freely soluble

---

## **SECTION 10      Stability and Reactivity**

---

**STABILITY:** Stable

**HAZARDOUS POLYMERIZATION:** Will not occur

**CONDITIONS TO AVOID:** Heat, light, moisture

**INCOMPATIBILITY:** Cyanides, sulfides, metals, strong bases

**DECOMPOSITION PRODUCTS:** Hydrogen chloride, chlorine

---

## **SECTION 11      Toxicological Information**

---

**CARCINOGENIC EFFECTS:** No Data

**MUTAGENIC EFFECTS:** No Data

**TETRATOGENIC EFFECTS:** No Data

To the best of our knowledge the toxicological effects of this compound have not been fully investigated. For use by technically qualified individuals. Not for household use.

---

## **SECTION 12      Ecological Information**

---

**ECOLOGICAL INFORMATION:** Do not allow material to be released to the environment without proper governmental permits. Do not allow undiluted product to reach ground water, water bodies or sewage system.

---

## **SECTION 13      Disposal Considerations**

---

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

---

## **SECTION 14      Transportation Information**

---

Chloroplatinic Acid, Solid      CLASS 8 , UN2507, PG III

---

## **SECTION 15      Regulatory Information**

---

**TSCA:** Not Listed

**SARA (TITLE 313):** Not reportable

**OSHA:** No

---

## **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.

**DATE PREPARED:** 01/2011

