



## Material Safety Data Sheet

### Section 1: Chemical Product and Company Identification

**Product Name:** Chloroplatinic acid  
**CAS No:** 18497-13-7  
**Chemical Formula:** H<sub>2</sub>PtCl<sub>6</sub>

**Contact Information:**  
Bangalore Refinery Private Limited  
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### Section 2 - Composition, Information on Ingredients

| CAS#       | Chemical Name            | Percent |
|------------|--------------------------|---------|
| 18497-13-7 | Chloroplatinic acid salt | 99      |

### Section 3 - Hazards Identification

#### Potential Health Effects

**Eye:** Causes eye burns.

**Skin:** May cause skin sensitization, an allergic reaction, which becomes evident upon re-exposure to this material. May cause severe irritation and possible burns.

**Ingestion:** Harmful if swallowed. May cause severe gastrointestinal tract irritation with nausea, vomiting and possible burns.

**Inhalation:** May cause allergic respiratory reaction. May cause severe respiratory tract irritation. May cause asthma and shortness of breath.

**Chronic:** Repeated exposure may cause allergic respiratory reaction (asthma). Exposure may cause platinosis, a morbid condition resulting from exposure to soluble platinum salts, with involvement of the upper respiratory tract and allergic manifestations of the skin. Platinosis is considered to be a progressive, allergic reaction following exposure to

platinum salts, leading to pronounced asthmatic

#### Section 4 - First Aid Measures

**Eyes:** In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical aid immediately.

**Skin:** In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical aid immediately. Wash clothing before reuse.

**Ingestion:** If swallowed, do NOT induce vomiting. Get medical aid immediately. If victim is fully conscious, give a cupful of water. Never give anything by mouth to an unconscious person.

**Inhalation:** If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid.

**Notes to Physician:** Treat symptomatically and supportively.

#### Section 5 - Fire and Explosion Data

**Flash Point:** Not applicable.

**Autoignition Temperature:** Not applicable.

**Explosion Limits, Lower:** Not available.

**Upper:** Not available.

#### Section 6 - Accidental Release Measures

**General Information:** Use proper personal protective equipment

**Spills/Leaks:** Vacuum or sweep up material and place into a suitable disposal container. Avoid generating dusty conditions. Provide ventilation.

#### Section 7 - Handling and Storage

**Handling:** Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Minimize dust generation and accumulation. Do not get in eyes, on skin, or on clothing. Do not breathe dust. Inform laundry personnel of contaminant's hazards. Use only with adequate ventilation or respiratory protection.

**Storage:** Store in a tightly closed container. Store in a cool, dry, well-ventilated area away from incompatible substances. Store protected from moisture. Store protected from heat

and direct sunlight. Sometimes packaged under dry nitrogen.

## Section 8 - Exposure Controls, Personal Protection

**Engineering Controls:** Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate general or local exhaust ventilation to keep airborne concentrations below the permissible exposure limits.

### Personal Protective Equipment

**Eyes:** Splash goggles. Lab coat. Vapour and dust respirator. Be sure to use an approved/certified respirator or equivalent. Gloves.

**Skin:** Wear appropriate gloves to prevent skin exposure.

**Clothing:** Wear appropriate protective clothing to prevent skin exposure.

## Section 9 - Physical and Chemical Properties

**Physical State:** Powder and chunks

**Appearance:** orange-brown

**Odor:** none reported

**pH:** Not available.

**Vapor Pressure:** Negligible.

**Vapor Density:** Not available.

**Evaporation Rate:** Negligible.

**Viscosity:** Not available.

**Boiling Point:** Not available.

**Freezing/Melting Point:** 60 deg C

**Decomposition Temperature:** Not available.

**Solubility:** Freely Soluble.

**Specific Gravity/Density:** 2.43

**Molecular Formula:**H<sub>2</sub>PtCl<sub>6</sub>.

**Molecular Weight:**517.91

### Section 10 - Stability and Reactivity

**Chemical Stability:** Stable. Deliquescent (tending to absorb atmospheric water vapor and become liquid).

**Conditions to Avoid:** Light, dust generation, moisture, heat, confined spaces.

**Incompatibilities with Other Materials:** Metals, strong bases, cyanides, sulfides.

**Hazardous Decomposition Products:** Hydrogen chloride, chlorine.

**Hazardous Polymerization:** Will not occur.

### Section 11 - Toxicological Information

**Epidemiology:** Occupational exposures to soluble complex salts of platinum, but not elemental platinum, have caused progressive allergic reactions that led to pronounced asthmatic symptoms. Skin sensitization has also occurred.

**Teratogenicity:** No data available.

**Reproductive Effects:** No data available.

**Neurotoxicity:** No data available.

### Section 12 - Ecological Information

No information available.

### Section 13 - Disposal Considerations

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.

### **Section 14 - Transport Information**

Shipping Name: CHLOROPLATINIC ACID, SOLID

Hazard Class: 8

Packing Group: III

### **Section 15 - Regulatory Information**

Protective Equipment: Not applicable.

Lab coat. Not applicable. Safety glasses

### **Section 16 - Additional Information**

*References: Not available.*

Other Special Considerations: Not available.

*The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall Bangalore Refinery Pvt Ltd. be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if Bangalore Refinery Pvt Ltd. has been advised of the possibility of such damages.*