

**POTASSIUM TETRA CHLORO  
PLATINATE (II)  
CAS NO 10025-99-7**

**MATERIAL SAFETY DATA SHEET  
SDS/MSDS**

**SECTION 1: Identification of the substance/mixture and of the company/undertaking**

**1.1 Product identifiers**

Product name : Potassium Tetra Chloro Platinate (II)

CAS-No. : 10025-99-7

**1.2 Relevant identified uses of the substance or mixture and uses advised against**

Identified uses : Laboratory chemicals, Industrial & for professional use only.

**1.3 Details of the supplier of the safety data sheet**

Company : Central Drug House (P) Ltd  
7/28 Vardaan House  
New Delhi -110002  
INDIA

Telephone : +91 11 49404040

Email : [care@cdhfinechemical.com](mailto:care@cdhfinechemical.com)

**1.4 Emergency telephone number**

Emergency Phone # : +91 11 49404040 (9:00am - 6:00 pm) [Office hours]

**SECTION 2: Hazards identification**

**2.1 Classification of the substance or mixture**

**Classification according to Regulation (EC) No 1272/2008**

Acute toxicity, Oral (Category 3), H301

Skin irritation (Category 2), H315

Serious eye damage (Category 1), H318

Respiratory sensitisation (Category 1), H334

Skin sensitisation (Category 1), H317

For the full text of the H-Statements mentioned in this Section, see Section 16.

**2.2 Label elements**

**Labelling according Regulation (EC) No 1272/2008**

Pictogram



Signal word

Danger

Hazard statement(s)

H301

Toxic if swallowed.

H315

Causes skin irritation.

|                                |  |
|--------------------------------|--|
| H317                           | May cause an allergic skin reaction.   |
| H318                           | Causes serious eye damage.   |
| H334                           | May cause allergy or asthma symptoms or breathing difficulties if inhaled.   |
| Precautionary statement(s)     |  |
| P261                           | Avoid breathing dust.  |
| P280                           | Wear protective gloves/ eye protection/ face protection.   |
| P301 + P310                    | IF SWALLOWED: Immediately call a POISON CENTER/doctor.   |
| P305 + P351 + P338             | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |
| P342 + P311                    | If experiencing respiratory symptoms: Call a POISON CENTER/doctor.   |
| Supplemental Hazard Statements | none   |

### 2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

## SECTION 3: Composition/information on ingredients

### 3.1 Substances

|                  |   |                                   |
|------------------|---|-----------------------------------|
| Synonyms         | : | Potassium platinum(II) chloride   |
| Formula          | : | K <sub>2</sub> Pt Cl <sub>4</sub> |
| Molecular weight | : | 415.09 g/mol                      |
| CAS-No.          | : | 10025-99-7                        |
| EC-No.           | : | 233-050-9                         |
| Index-No.        | : | 078-004-00-7                      |

#### Hazardous ingredients according to Regulation (EC) No 1272/2008

| Component                               | Classification | Concentration  |
|---|----------------|--|
| <b>Dipotassium tetrachloroplatinate</b> |                |  |
| CAS-No.                                 | 10025-99-7     | Acute Tox. 3; Skin Irrit. 2; Eye Dam. 1; Resp. Sens. 1; Skin Sens. 1; H301, H315, H318, H334, H317 |
| EC-No.                                  | 233-050-9      |  |
| Index-No.                               | 078-004-00-7   |  |

For the full text of the H-Statements mentioned in this Section, see Section 16.

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

#### General advice

Consult a physician. Show this safety data sheet to the doctor in attendance.

#### If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

#### In case of skin contact

Wash off with soap and plenty of water. Take victim immediately to hospital. Consult a physician.

#### In case of eye contact

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

#### If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

### 4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

### 4.3 Indication of any immediate medical attention and special treatment needed

No data available

## **SECTION 5: Firefighting measures**

### **5.1 Extinguishing media**

#### **Suitable extinguishing media**

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

### **5.2 Special hazards arising from the substance or mixture**

Hydrogen chloride gas, Potassium oxides

### **5.3 Advice for firefighters**

Wear self-contained breathing apparatus for firefighting if necessary.

### **5.4 Further information**

No data available

## **SECTION 6: Accidental release measures**

### **6.1 Personal precautions, protective equipment and emergency procedures**

Wear respiratory protection. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.

For personal protection see section 8.

### **6.2 Environmental precautions**

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

### **6.3 Methods and materials for containment and cleaning up**

Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

### **6.4 Reference to other sections**

For disposal see section 13.

## **SECTION 7: Handling and storage**

### **7.1 Precautions for safe handling**

Avoid contact with skin and eyes. Avoid formation of dust and aerosols.

Provide appropriate exhaust ventilation at places where dust is formed.

For precautions see section 2.2.

### **7.2 Conditions for safe storage, including any incompatibilities**

Store in cool place. Keep container tightly closed in a dry and well-ventilated place.

Storage class (TRGS 510): Non-combustible, acute toxic Cat.3 / toxic hazardous materials or hazardous materials causing chronic effects

### **7.3 Specific end use(s)**

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

## **SECTION 8: Exposure controls/personal protection**

### **8.1 Control parameters**

### **8.2 Exposure controls**

#### **Appropriate engineering controls**

Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product.

#### **Personal protective equipment**

##### **Eye/face protection**

Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

##### **Skin protection**

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

### **Body Protection**

Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

### **Respiratory protection**

Where risk assessment shows air-purifying respirators are appropriate use (EN 143) respirator cartridges as a backup to engineering controls. If th full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

### **Control of environmental exposure**

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

## **SECTION 9: Physical and chemical properties**

### **9.1 Information on basic physical and chemical properties**

|   |                                 |
|---|---------------------------------|
| a) Appearance                                   | Form: solid<br>Colour: red      |
| b) Odour  | No data available               |
| c) Odour Threshold                              | No data available               |
| d) pH   | No data available               |
| e) Melting point/freezing point                 | No data available               |
| f) Initial boiling point and boiling range      | No data available               |
| g) Flash point                                  | Not applicable                  |
| h) Evaporation rate                             | No data available               |
| i) Flammability (solid, gas)                    | No data available               |
| j) Upper/lower flammability or explosive limits | No data available               |
| k) Vapour pressure                              | No data available               |
| l) Vapour density                               | No data available               |
| m) Relative density                             | 3.38 g/cm <sup>3</sup> at 25 °C |
| n) Water solubility                             | No data available               |
| o) Partition coefficient: n-octanol/water       | No data available               |
| p) Auto-ignition temperature                    | No data available               |
| q) Decomposition temperature                    | No data available               |
| r) Viscosity                                    | No data available               |
| s) Explosive properties                         | No data available               |
| t) Oxidizing properties                         | No data available               |

### **9.2 Other safety information**

No data available

## **SECTION 10: Stability and reactivity**

### **10.1 Reactivity**

No data available

## 10.2 Chemical stability

Stable under recommended storage conditions.

## 10.3 Possibility of hazardous reactions

No data available

## 10.4 Conditions to avoid

No data available

## 10.5 Incompatible materials

Strong oxidizing agents, acids

## 10.6 Hazardous decomposition products

Hazardous decomposition products formed under fire conditions. - Hydrogen chloride gas, Potassium oxides

Other decomposition products - No data available

In the event of fire: see section 5

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

#### Acute toxicity

LDLO Oral - Child - 400 mg/kg(Dipotassium tetrachloroplatinate)

Remarks: Cardiac:Other changes.

LD50 Intraperitoneal - Mouse - 45 mg/kg(Dipotassium tetrachloroplatinate)

#### Skin corrosion/irritation

No data available(Dipotassium tetrachloroplatinate)

#### Serious eye damage/eye irritation

No data available(Dipotassium tetrachloroplatinate)

#### Respiratory or skin sensitisation

#### Germ cell mutagenicity

Mouse(Dipotassium tetrachloroplatinate)

lymphocyte

DNA inhibition

Human(Dipotassium tetrachloroplatinate)

lymphocyte

Micronucleus test

#### Carcinogenicity

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

#### Reproductive toxicity

No data available(Dipotassium tetrachloroplatinate)

#### Specific target organ toxicity - single exposure

No data available(Dipotassium tetrachloroplatinate)

#### Specific target organ toxicity - repeated exposure

No data available

#### Aspiration hazard

No data available(Dipotassium tetrachloroplatinate)

#### Additional Information

RTECS: TP1850000

Cough, Shortness of breath, Headache, Nausea, Vomiting, Dermatitis(Dipotassium tetrachloroplatinate)

## SECTION 12: Ecological information

### 12.1 Toxicity

No data available

**12.2 Persistence and degradability**

No data available

**12.3 Bioaccumulative potential**

No data available

**12.4 Mobility in soil**

No data available(Dipotassium tetrachloroplatinate)

**12.5 Results of PBT and vPvB assessment**

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

**12.6 Other adverse effects**

No data available

**SECTION 13: Disposal considerations****13.1 Waste treatment methods****Product**

Offer surplus and non-recyclable solutions to a licensed disposal company. Dissolve or mix the material with a combustible solvent and burn in a chem scrubber.

**Contaminated packaging**

Dispose of as unused product.

**SECTION 14: Transport information****14.1 UN number**

ADR/RID: 3288

IMDG: 3288

IATA: 3288

**14.2 UN proper shipping name**

ADR/RID: TOXIC SOLID, INORGANIC, N.O.S. (Dipotassium tetrachloroplatinate)

IMDG: TOXIC SOLID, INORGANIC, N.O.S. (Dipotassium tetrachloroplatinate)

IATA: Toxic solid, inorganic, n.o.s. (Dipotassium tetrachloroplatinate)

**14.3 Transport hazard class(es)**

ADR/RID: 6.1

IMDG: 6.1

IATA: 6.1

**14.4 Packaging group**

ADR/RID: III

IMDG: III

IATA: III

**14.5 Environmental hazards**

ADR/RID: no

IMDG Marine pollutant: no

IATA: no

**14.6 Special precautions for user**

No data available

**SECTION 15: Regulatory information****15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

**15.2 Chemical safety assessment**

For this product a chemical safety assessment was not carried out

**SECTION 16: Other information****Full text of H-Statements referred to under sections 2 and 3.**

|      |  |
|------|--|
| H301 | Toxic if swallowed.  |
| H315 | Causes skin irritation.  |
| H317 | May cause an allergic skin reaction.                                       |
| H318 | Causes serious eye damage.   |
| H334 | May cause allergy or asthma symptoms or breathing difficulties if inhaled. |

**Further information**

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Central Drug House (P) Ltd and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See [www.cdhfinechemical.com](http://www.cdhfinechemical.com) for additional terms and conditions of sale.