

Version: v1  
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## SAFETY DATA SHEET

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

#### 1.1 Product identifiers

Product name : Platinic chloride  
Product Number : P121689  
Brand : aladdin  
CAS-No. : 13454-96-1

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

Identified uses : Laboratory chemicals, Manufacture of substances

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

Company : Shanghai Aladdin Biochemical Tech Co., Ltd  
Address : 36 Xinjinqiao Road, Shanghai  
Telephone : 400-620-6333  
Fax : no data available

#### 1.4 Emergency telephone number

Emergency Phone : 0532-83889090

### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

##### GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Acute oral toxicity Category 3

Skin Corrosion/Irritation Category 1B

Serious Eye Damage/Eye Irritation Category 1

Respiratory Sensitization Category 1

Skin Sensitization Category 1

#### 2.2 GHS Label elements, including precautionary statements

Pictogram



Signal word

Danger

Hazard statement(s)

H290

May be corrosive to metals

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**Precautionary statement(s)**

|                |                                                                                                                                  |
|----------------|----------------------------------------------------------------------------------------------------------------------------------|
| P234           | Keep only in original container.                                                                                                 |
| P260           | Do not breathe dust/fume/gas/mist/vapors/spray.                                                                                  |
| P261           | Avoid breathing dust/fume/gas/mist/vapors/spray.                                                                                 |
| P264           | Wash hands [and ...] thoroughly after handling.                                                                                  |
| P270           | Do not eat, drink or smoke when using this product.                                                                              |
| P272           | Contaminated work clothing should not be allowed out of the workplace.                                                           |
| P280           | Wear protective gloves/protective clothing/eye protection/face protection.                                                       |
| P284           | [In case of inadequate ventilation] Wear respiratory protection.                                                                 |
| P302           | IF ON SKIN:                                                                                                                      |
| P330           | Rinse mouth.                                                                                                                     |
| P342           | If experiencing respiratory symptoms:                                                                                            |
| P361           | Take off immediately all contaminated clothing.                                                                                  |
| P363           | Wash contaminated clothing before reuse.                                                                                         |
| P390           | Absorb spillage to prevent material damage.                                                                                      |
| P301+P330+P331 | IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.                                                                               |
| P302+P352      | IF ON SKIN: wash with plenty of water.                                                                                           |
| P304+P340      | IF INHALED: Remove person to fresh air and keep comfortable for breathing.                                                       |
| P305+P351+P338 | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do - continue rinsing. |
| P333+P313      | IF SKIN irritation or rash occurs: Get medical advice/attention.                                                                 |
| P362+P364      | Take off contaminated clothing and wash it before reuse.                                                                         |
| P405           | Store locked up.                                                                                                                 |
| P406           | Store in corrosive resistant/... container with a resistant inner liner.                                                         |
| P501           | Dispose of contents/container to an approved waste disposal plant.                                                               |

**2.3 Hazards not otherwise classified (HNOC) or not covered by GHS**

None identified

**SECTION 3: Composition/information on ingredients****3.1 Substances**

|                  |                                                                  |
|------------------|------------------------------------------------------------------|
| Synonyms         | : Platinum(IV) chloride Platinum tetrachloride;Platinum chloride |
| Formula          | : PtCl <sub>4</sub>                                              |
| Molecular weight | : 336.89                                                         |
| CAS No.          | : 13454-96-1                                                     |
| EC-NO.           | : 236-645-1                                                      |

| Component         | Classification    | Concentration       |
|-------------------|-------------------|---------------------|
| Platinic chloride | no data available | 99.99% metals basis |

**SECTION 4: First aid measures**

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#### 4.1 Description of first aid measures

##### **General advice**

Show this material safety data sheet to the doctor in attendance.

##### **If inhaled**

Remove from exposure, lie down. Remove to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Immediate medical attention is required.

##### **In case of skin contact**

Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Get medical attention.

##### **In case of eye contact**

Immediate medical attention is required. Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.

##### **If swallowed**

Do NOT induce vomiting. Call a physician immediately. Clean mouth with water.

#### 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

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### SECTION 5: Firefighting measures

#### 5.1 Extinguishing media

##### **Suitable extinguishing media**

Water spray. Carbon dioxide (CO<sub>2</sub>). Dry chemical. Chemical foam.

##### **Unsuitable extinguishing media**

no data available

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

no data available

#### 5.3 Advice for firefighters

wear self-contained breathing and full protective gear.

#### 5.4 Further information

Use water spray to cool unopened containers.

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### SECTION 6: Accidental release measures

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

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Use personal protective equipment as required. Ensure adequate ventilation.

**6.2 Environmental precautions**

See Section 12 for additional Ecological Information.

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

Avoid dust formation. Sweep up and shovel into suitable containers for disposal. Do not let this chemical enter the environment.

**6.4 Reference to other sections**

For disposal see section 13.

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**SECTION 7: Handling and storage**

**7.1 Precautions for safe handling**

Do not breathe dust. Do not get in eyes, on skin, or on clothing. Handle product only in closed system or provide appropriate exhaust ventilation.

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

Keep in a dry, cool and well-ventilated place. Refer product specification and/or product label for specific storage temperature requirement. Keep container tightly closed.

**7.3 Specific end use(s)**

no data available

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

**8.1 Control parameters**

**8.2 Exposure controls**

**Appropriate engineering controls**

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

**Personal protective equipment**

**Eyeface protection**

Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN166(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. The selected protective gloves have to satisfy the specifications of Regulation (EU)2016/425 and the standard EN 374 derived from it.

**Body Protection**

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Complete suit protecting against chemicals, Flame retardant antistatic protective clothing. 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 a fullface particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a 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

If safety requires, prevent further leakage or spillage. Do not let the product enter the sewer.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

|                                                 |                                 |
|-------------------------------------------------|---------------------------------|
| a) Appearance                                   | form: Powder Solid color: Brown |
| 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                                  | no data available               |
| 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                             | no data available               |
| 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 N                       | no data available               |
| t) Oxidizing properties N                       | 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

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no data available

**10.4 Conditions to avoid**

Incompatible products.

**10.5 Incompatible materials**

Strong oxidizing agents

**10.6 Hazardous decomposition products**

Chlorine, Hydrogen chloride gas

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**SECTION 11: Toxicological information**

**11.1 Information on toxicological effects**

**Acute toxicity**

no data available

**Skin corrosion/irritation**

no data available

**Serious eye damage/eye irritation**

no data available

**Respiratory or skin sensitisation**

no data available

**Germ cell mutagenicity**

no data available

**Carcinogenicity**

no data available

**Reproductive toxicity**

no data available

**Specific target organ toxicity - single exposure**

no data available

**Specific target organ toxicity - repeated exposure**

no data available

**Aspiration hazard**

no data available

**Additional Information**

no data available

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**SECTION 12: Ecological information**

**12.1 Toxicity**

no data available

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**12.2 Persistence and degradability**

no data available

**12.3 Bioaccumulative potential**

no data available

**12.4 Mobility in soil**

no data available

**12.5 Results of PBT and vPvB assessment**

no data available

**12.6 Other adverse effects**

no data available

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**SECTION 13:****13.1 Disposal considerations****Product**

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

**Contaminated packaging**

Dispose of as unused product.

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**SECTION 14: Transport information****DOT (US)**

UN number: UN2923

Packing group: no data available

Class: no data available

Proper shipping name: no data available

Reportable Quantity(RQ): no data available Poison Inhalation Hazard: no data

Environmental Hazards: no data available

**IMDG**

UN number: UN2923

Packing group: no data available

EMS-No: no data available

Proper shipping name: no data available

**IATA**

UN number: UN2923

Packing group: no data available

Class: no data available

Proper shipping name: no data available

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**SECTION 15: Regulatory information**

Please note that waste disposal should also meet local regulations. If applicable, the chemical meets the requirements of the Regulations on the Safety Management of Hazardous Chemicals (adopted by the State Council on December 4, 2013).

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## SECTION 16: Other information

### Further information

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