

## Safety Data Sheet

according to Regulation (EC) No 1907/2006

## di-Potassium hexachloroplatinate

Revision date: 15.08.2023

Product code: 22713

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**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1. Product identifier**

di-Potassium hexachloroplatinate

CAS No: 16921-30-5  
Index No: 078-007-00-3  
EC No: 240-979-3

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

Laboratory chemicals

Industrial uses: Uses of substances as such or in preparations at industrial sites

Professional uses: Public domain (administration, education, entertainment, services, craftsmen)

**Uses advised against**

Do not use for private purposes (household).

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

Company name: AnalytiChem GmbH  
Street: Stempelstraße 6  
Place: D-47167 Duisburg  
Telephone: 0203/5194-0  
E-mail: info@analytichem.de  
Contact person: Abteilung Produktsicherheit  
E-mail: produktsicherheit@analytichem.de  
Internet: www.analytichem.de  
Responsible Department: Abteilung Produktsicherheit

Telefax: 0203/5194-290

Telephone: 0203/5194-107/117

**1.4. Emergency telephone number:**

For Hazardous Materials [or Dangerous Goods] Incidents Spill, Leak, Fire, Exposure, or Accident Call CHEMTREC Day or Night Within USA and Canada: 1-800-424-9300 Outside USA and Canada: +1 703-741-5970 (collect calls accepted)

**Further Information**

A registration number is not available for this substance as the substance or its use are exempted from registration according to Article 2 REACH Regulation (EC) No 1907/2006, the annual tonnage does not require a registration or the registration is envisaged for a later registration deadline.

**SECTION 2: Hazards identification****2.1. Classification of the substance or mixture****Regulation (EC) No 1272/2008**

Acute Tox. 3; H301  
Eye Dam. 1; H318  
Resp. Sens. 1; H334  
Skin Sens. 1; H317

Full text of hazard statements: see SECTION 16.

**2.2. Label elements****Regulation (EC) No 1272/2008**

Signal word: Danger

Pictograms:



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#### Hazard statements

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

#### Precautionary statements

- P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.  
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P304+P341 IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.  
P302+P352 IF ON SKIN: Wash with plenty of soap and water.  
P308+P311 IF exposed or concerned: Call a POISON CENTER/doctor.

#### 2.3. Other hazards

No data available

### SECTION 3: Composition/information on ingredients

#### 3.1. Substances

- Sum formula: K<sub>2</sub>PtCl<sub>6</sub>  
Molecular weight: 486,01 g/mol

#### Hazardous components

| CAS No     | Chemical name  |              |          | Quantity |
|------------|--|--------------|----------|----------|
|            | EC No  | Index No     | REACH No |          |
|            | Classification (Regulation (EC) No 1272/2008)                              |              |          |          |
| 16921-30-5 | dipotassium hexachloroplatinate  |              |          | 100 %    |
|            | 240-979-3  | 078-007-00-3 |          |          |
|            | Acute Tox. 3, Eye Dam. 1, Resp. Sens. 1, Skin Sens. 1; H301 H318 H334 H317 |              |          |          |

Full text of H and EUH statements: see section 16.

#### Specific Conc. Limits, M-factors and ATE

| CAS No     | EC No                                    | Chemical name                   | Quantity |
|------------|--|---------------------------------|----------|
|            | Specific Conc. Limits, M-factors and ATE |                                 |          |
| 16921-30-5 | 240-979-3                                | dipotassium hexachloroplatinate | 100 %    |
|            | oral: LD50 = 195 mg/kg                   |                                 |          |

#### Further Information

This product does not contain substances of very high concern according to Regulation (EC) No 1907/2006 (REACH), Article 57 above the respective regulatory concentration limit of = 0.1 % (w/w).

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

##### General information

No data available

##### After inhalation

- Provide fresh air.  
Call a physician immediately.

##### After contact with skin

- Wash immediately with: Water  
Take off immediately all contaminated clothing and wash it before reuse.

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Call a physician immediately.

#### **After contact with eyes**

After eye contact: Rinse immediately carefully and thoroughly with eye-bath or water.

Remove contact lenses, if present and easy to do. Continue rinsing.

Consult an ophthalmologist.

#### **After ingestion**

Rinse mouth immediately and drink plenty of water.

Water, to which activated charcoal may be added

Call a physician immediately.

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

Allergic reactions

Liver and kidney damage

#### **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**

Co-ordinate fire-fighting measures to the fire surroundings.

#### **Unsuitable extinguishing media**

no restriction

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

Non-combustible solids

Hazardous combustion products

In case of fire may be liberated:

Hydrogen chloride (HCl)

Chlorine (Cl<sub>2</sub>)

### **5.3. Advice for firefighters**

In case of fire: Wear self-contained breathing apparatus.

Wear full chemical protective clothing.

In case of fire and/or explosion do not breathe fumes.

#### **Additional information**

Use water spray jet to protect personnel and to cool endangered containers.

Move undamaged containers from immediate hazard area if it can be done safely.

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

## SECTION 6: Accidental release measures

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

#### **For non-emergency personnel**

Provide adequate ventilation.

Use personal protection equipment.

Avoid contact with skin, eyes and clothes.

Remove persons to safety.

Emergency procedures

Do not breathe dust/fume/gas/mist/vapours/spray.

#### **For emergency responders**

Precautionary statements For emergency responders : Personal protection equipment: see section 8

### **6.2. Environmental precautions**

Do not allow to enter into surface water or drains.

### **6.3. Methods and material for containment and cleaning up**

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#### For containment

- Cover drains.
- Prevent spread over a wide area (e.g. by containment or oil barriers).
- Collect in closed and suitable containers for disposal.
- Take up carefully when dry. Take up dust-free and set down dust-free.

#### For cleaning up

- Clean contaminated articles and floor according to the environmental legislation.

#### Other information

- Provide adequate ventilation.
- Do not breathe dust/fume/gas/mist/vapours/spray.
- Wear breathing apparatus if exposed to vapours/dusts/aerosols.

#### 6.4. Reference to other sections

- Safe handling: see section 7
- Personal protection equipment: see section 8
- Disposal: see section 13

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

#### Advice on safe handling

- Avoid exposure - obtain special instructions before use.
- If handled uncovered, arrangements with local exhaust ventilation have to be used.
- Read label before use. Handle and open container with care.
- When using do not eat, drink, smoke, sniff. Keep container tightly closed.
- Use personal protection equipment. Use extractor hood (laboratory).
- Do not breathe dust. Avoid dust formation.
- Provide adequate ventilation.

#### Advice on protection against fire and explosion

- Usual measures for fire prevention.

#### Advice on general occupational hygiene

- Remove contaminated, saturated clothing immediately. Draw up and observe skin protection programme.
- Wash hands and face before breaks and after work and take a shower if necessary. When using do not eat or drink.

#### Further information on handling

- Take off immediately all contaminated clothing and wash it before reuse.
- Draw up and observe skin protection programme. Wash hands and face before breaks and after work and take a shower if necessary. If handled uncovered, arrangements with local exhaust ventilation have to be used.

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

#### Requirements for storage rooms and vessels

- Keep container tightly closed.
- Keep locked up.
- Store in a place accessible by authorized persons only.
- Provide adequate ventilation as well as local exhaustion at critical locations.

#### Further information on storage conditions

- Store in a well-ventilated place.

### 7.3. Specific end use(s)

- Laboratory chemicals

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

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**PNEC values**

| CAS No   | Substance                       | Value         |
|--|---------------------------------|---------------|
| Environmental compartment                        |                                 |               |
| 16921-30-5                                       | dipotassium hexachloroplatinate |               |
| Freshwater                                       |                                 | 0,00014 mg/l  |
| Freshwater (intermittent releases)               |                                 | 0,000205 mg/l |
| Marine water                                     |                                 | 0,000017 mg/l |
| Freshwater sediment                              |                                 | 0,261 mg/kg   |
| Marine sediment                                  |                                 | 0,026 mg/kg   |
| Micro-organisms in sewage treatment plants (STP) |                                 | 0,125 mg/l    |
| Soil   |                                 | 0,005 mg/kg   |

**8.2. Exposure controls**

**Appropriate engineering controls**

Technical measures and the application of suitable work processes have priority over personal protection equipment.

If handled uncovered, arrangements with local exhaust ventilation have to be used.

Do not breathe gas/fumes/vapour/spray.

**Individual protection measures, such as personal protective equipment**

**Eye/face protection**

goggles

**Hand protection**

When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

Protective gloves are recommended Company KCL GmbH, D-36124 Eichenzell, email: [vertrieb@kcl.de](mailto:vertrieb@kcl.de) With specification (test according to EN374):

By long-term hand contact

Trade name/designation: KCL 741 Dermatril® L

Recommended material: NBR (Nitrile rubber) 0,11 mm

Wearing time with permanent contact: > 480 min

By short-term hand contact

Trade name/designation: KCL 741 Dermatril® L

Recommended material: NBR (Nitrile rubber) 0,11 mm

Wearing time with occasional contact (splashes): > 480 min

The breakthrough times stated above were determined by KCL in laboratory tests acc. to EN374 with samples of the recommended glove types. This recommendation applies only to the product stated in the safety data sheet (>, <) supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN374 please contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell, Internet: [www.kcl.de](http://www.kcl.de)).

**Skin protection**

Protective clothing

Take off immediately all contaminated clothing and wash it before reuse.

Wash hands and face before breaks and after work and take a shower if necessary.

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Draw up and observe skin protection programme.

**Respiratory protection**

Respiratory protection necessary at: dust formation  
Filtering device with filter or ventilator filtering device of type: P3

**Environmental exposure controls**

Do not allow to enter into surface water or drains.

**SECTION 9: Physical and chemical properties**

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

|   |                        |
|---|------------------------|
| Physical state:   | solid                  |
| Colour:   | yellow-orange          |
| Odour:  | odourless              |
| Odour threshold:  | No data available      |
| Melting point/freezing point:                             | 250 °C                 |
| Boiling point or initial boiling point and boiling range: | No data available      |
| Flammability:   | not applicable         |
| Lower explosion limits:                                   | not applicable         |
| Upper explosion limits:                                   | No data available      |
| Flash point:  | No data available      |
| Auto-ignition temperature:                                | No data available      |
| Decomposition temperature:                                | >250 °C                |
| pH-Value:   | No data available      |
| Viscosity / kinematic:                                    | not determined         |
| Water solubility:<br>(at 95 °C)                           | ~50 g/L                |
| Solubility in other solvents                              | not determined         |
| Dissolution rate:   | No data available      |
| Partition coefficient n-octanol/water:                    | No data available      |
| Dispersion stability:                                     | No data available      |
| Vapour pressure:  | No data available      |
| Vapour pressure:  | No data available      |
| Density:  | 3,48 g/cm <sup>3</sup> |
| Relative density:   | No data available      |
| Bulk density:   | No data available      |
| Relative vapour density:                                  | not determined         |
| Particle characteristics:                                 | No data available      |

**9.2. Other information**

**Information with regard to physical hazard classes**

|                           |                   |
|---------------------------|-------------------|
| Explosive properties      | No data available |
| Sustaining combustion:    | No data available |
| Self-ignition temperature |                   |
| Solid:                    | not applicable    |
| Gas:                      | not applicable    |
| Oxidizing properties      |                   |
| No data available         |                   |

**Other safety characteristics**

|                          |                |
|--------------------------|----------------|
| Evaporation rate:        | not determined |
| Solvent separation test: | not determined |

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|                      |                   |
|----------------------|-------------------|
| Solvent content:     | No data available |
| Solid content:       | 100%              |
| Sublimation point:   | No data available |
| Softening point:     | No data available |
| Pour point:          | No data available |
| No data available:   |                   |
| Viscosity / dynamic: | No data available |
| Flow time:           | not determined    |

#### Further Information

No data available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

Corrosive to metals

### 10.2. Chemical stability

The product is stable under storage at normal ambient temperatures.

### 10.3. Possibility of hazardous reactions

No data available

### 10.4. Conditions to avoid

Heat

### 10.5. Incompatible materials

Aluminium  
Steel

### 10.6. Hazardous decomposition products

SECTION 5: Firefighting measures

#### Further information

No data available

## SECTION 11: Toxicological information

### 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

#### Toxicokinetics, metabolism and distribution

Avoid exposure - obtain special instructions before use.

#### Acute toxicity

Toxic if swallowed.  
Irritation to respiratory tract

| CAS No     | Chemical name                   |               |         |        |   |
|------------|---------------------------------|---------------|---------|--------|---|
|            | Exposure route                  | Dose          | Species | Source | Method                                    |
| 16921-30-5 | dipotassium hexachloroplatinate |               |         |        |   |
|            | oral                            | LD50<br>mg/kg | 195     | Rat    | Study report (1995)<br>OECD Guideline 401 |

#### Irritation and corrosivity

Causes serious eye damage.  
Skin corrosion/irritation: Based on available data, the classification criteria are not met.

#### Sensitising effects

May cause allergy or asthma symptoms or breathing difficulties if inhaled. (dipotassium hexachloroplatinate)  
May cause an allergic skin reaction. (dipotassium hexachloroplatinate)

#### Carcinogenic/mutagenic/toxic effects for reproduction

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Based on available data, the classification criteria are not met.

**STOT-single exposure**

Based on available data, the classification criteria are not met.

**STOT-repeated exposure**

Based on available data, the classification criteria are not met.

**Aspiration hazard**

Based on available data, the classification criteria are not met.

**Information on likely routes of exposure**

No data available

**Specific effects in experiment on an animal**

No data available

**Additional information on tests**

No data available

**Practical experience**

No data available

**11.2. Information on other hazards**

**Endocrine disrupting properties**

No data available

**Other information**

No data available

**Further information**

Allergic reactions

Liver and kidney damage

**SECTION 12: Ecological information**

**12.1. Toxicity**

| CAS No     | Chemical name                   |                |           |         |   |  |
|------------|---------------------------------|----------------|-----------|---------|---|--|
|            | Aquatic toxicity                | Dose           | [h]   [d] | Species | Source  | Method   |
| 16921-30-5 | dipotassium hexachloroplatinate |                |           |         |   |  |
|            | Acute fish toxicity             | LC50<br>mg/l   | 76,55     | 96 h    | Oncorhynchus mykiss                                 | Study report (2005)<br>OECD Guideline 203  |
|            | Acute algae toxicity            | ErC50          | 1,3 mg/l  | 72 h    | Desmodesmus subspicatus                             | Study report (2001)<br>OECD Guideline 201  |
|            | Acute crustacea toxicity        | EC50<br>mg/l   | 0,0608    | 48 h    | Daphnia magna                                       | Study report (2005)<br>OECD Guideline 202  |
|            | Crustacea toxicity              | NOEC<br>mg/l   | 0,007     | 21 d    | Daphnia magna                                       | J. Fish. Res. Bd. Canada 29: 1691-1700 (<br>A standard guideline was not followed, b |
|            | Acute bacteria toxicity         | (EC50<br>mg/l) | 103       | 3 h     | activated sludge of a predominantly domestic sewage | Study report (2015)<br>OECD Guideline 209  |

**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**



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This substance does not meet the PBT/vPvB criteria of REACH, annex XIII.

No data available

#### **12.6. Endocrine disrupting properties**

This substance does not have endocrine disrupting properties with respect to non-target organisms.

No data available

#### **12.7. Other adverse effects**

No data available

#### **Further information**

No data available

### SECTION 13: Disposal considerations

#### **13.1. Waste treatment methods**

##### **Disposal recommendations**

Waste disposal according to directive 2008/98/EC, covering waste and dangerous waste.

Send to a physico-chemical treatment facility under observation of official regulations.

Do not mix with other wastes.

Do not empty into drains.

##### **Contaminated packaging**

This material and its container must be disposed of as hazardous waste.

Handle contaminated packages in the same way as the substance itself.

The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process.

### SECTION 14: Transport information

#### **Land transport (ADR/RID)**

|  |  |
|--|--|
| <b>14.1. UN number or ID number:</b>     | UN 2923  |
| <b>14.2. UN proper shipping name:</b>    | CORROSIVE SOLID, TOXIC, N.O.S. (dipotassium hexachloroplatinate) |
| <b>14.3. Transport hazard class(es):</b> | 8  |
| <b>14.4. Packing group:</b>              | III  |
| Hazard label:                            | 8+6.1  |
| Classification code:                     | CT2  |
| Special Provisions:                      | 274  |
| Limited quantity:                        | 5 kg   |
| Excepted quantity:                       | E1   |
| Transport category:                      | 3  |
| Hazard No:                               | 86   |
| Tunnel restriction code:                 | E  |

#### **Inland waterways transport (ADN)**

|  |  |
|--|--|
| <b>14.1. UN number or ID number:</b>     | UN 2923  |
| <b>14.2. UN proper shipping name:</b>    | CORROSIVE SOLID, TOXIC, N.O.S. (dipotassium hexachloroplatinate) |
| <b>14.3. Transport hazard class(es):</b> | 8  |
| <b>14.4. Packing group:</b>              | III  |
| Hazard label:                            | 8+6.1  |
| Classification code:                     | CT2  |
| Special Provisions:                      | 274 802  |
| Limited quantity:                        | 5 kg   |
| Excepted quantity:                       | E1   |

#### **Marine transport (IMDG)**

|  |  |
|--|--|
| <b>14.1. UN number or ID number:</b>     | UN 2923  |
| <b>14.2. UN proper shipping name:</b>    | CORROSIVE SOLID, TOXIC, N.O.S. (dipotassium hexachloroplatinate) |
| <b>14.3. Transport hazard class(es):</b> | 8  |

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|                             |          |
|-----------------------------|----------|
| <b>14.4. Packing group:</b> | III      |
| Hazard label:               | 8+6.1    |
| Special Provisions:         | 223, 274 |
| Limited quantity:           | 5 kg     |
| Excepted quantity:          | E1       |
| EmS:                        | F-A, S-B |

#### Air transport (ICAO-TI/IATA-DGR)

|  |  |
|--|--|
| <b>14.1. UN number or ID number:</b>     | UN 2923  |
| <b>14.2. UN proper shipping name:</b>    | CORROSIVE SOLID, TOXIC, N.O.S. (dipotassium hexachloroplatinate) |
| <b>14.3. Transport hazard class(es):</b> | 8  |
| <b>14.4. Packing group:</b>              | III  |
| Hazard label:                            | 8+6.1  |
| Special Provisions:                      | A3 A803  |
| Limited quantity Passenger:              | 5 kg   |
| Passenger LQ:                            | Y845   |
| Excepted quantity:                       | E1   |
| IATA-packing instructions - Passenger:   | 860  |
| IATA-max. quantity - Passenger:          | 25 kg  |
| IATA-packing instructions - Cargo:       | 864  |
| IATA-max. quantity - Cargo:              | 100 kg   |

#### 14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: No

#### 14.7. Maritime transport in bulk according to IMO instruments

not applicable

### SECTION 15: Regulatory information

#### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

##### EU regulatory information

Restrictions on use (REACH, annex XVII):

Entry 75

Information according to 2012/18/EU (SEVESO III): H2 ACUTE TOXIC

##### National regulatory information

Employment restrictions: Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/EC). Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers.

Water hazard class (D): 2 - obviously hazardous to water

Skin resorption/Sensitization: Permeates easily through outer skin and causes poisoning.

#### 15.2. Chemical safety assessment

For this substance a chemical safety assessment has not been carried out.

### SECTION 16: Other information

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**Abbreviations and acronyms**

ADR: Accord européen sur le transport des marchandises dangereuses par Route  
(European Agreement concerning the International Carriage of Dangerous Goods by Road)  
IMDG: International Maritime Code for Dangerous Goods  
IATA: International Air Transport Association  
GHS: Globally Harmonized System of Classification and Labelling of Chemicals  
EINECS: European Inventory of Existing Commercial Chemical Substances  
ELINCS: European List of Notified Chemical Substances  
CAS: Chemical Abstracts Service  
LC50: Lethal concentration, 50%  
LD50: Lethal dose, 50%  
Acute Tox: Acute toxicity  
Eye Dam: Eye damage  
Resp. Sens: Respiratory sensitisation  
Skin Sens: Skin sensitisation

**Relevant H and EUH statements (number and full text)**

|      |  |
|------|--|
| H301 | Toxic if swallowed.  |
| 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 describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material. The information is based on the present level of our knowledge. It does not, however, give assurance of product properties and establishes no contract legal rights. The receiver of our product is singularly responsible for adhering to existing laws and regulations.