Printing date 07/31/2016

Reviewed on 07/31/2016

## **1** Identification

- · Product name
- · Trade name: Potassium hexachloroplatinate(IV), 99%
- *Item number:* 78-1960
- CAS Number: 16921-30-5
- EC number:
- 240-979-3 • Index number:
- 078-007-00-3
- $\cdot$  Details of the supplier of the safety data sheet
- Manufacturer/Supplier: Strem Chemicals, Inc.
   7 Mulliken Way NEWBURYPORT, MA 01950 USA info@strem.com
- · Information department: Technical Department
- *Emergency telephone number: EMERGENCY: CHEMTREC:* + 1 (800) 424-9300 *During normal opening times:* +1 (978) 499-1600

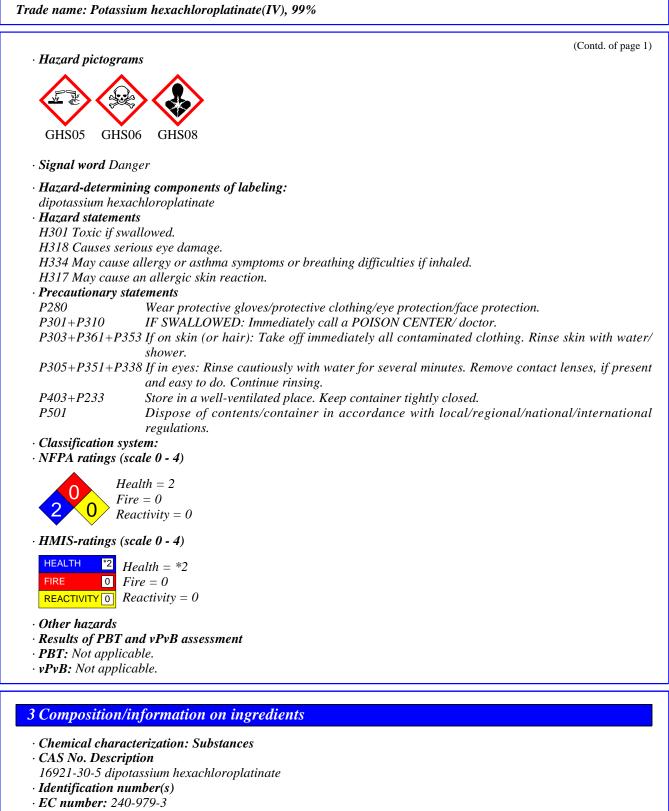
#### 2 Hazard(s) identification

Classification of the substance or mixture
GHS06 Skull and crossbones
Acute Tox. 3 H301 Toxic if swallowed.
GHS08 Health hazard
Resp. Sens. 1 H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
GHS05 Corrosion
Eye Dam. 1 H318 Causes serious eye damage.
GHS07
Skin Sens. 1 H317 May cause an allergic skin reaction.
Label elements
GHS04 elements
The substance is classified and labeled according to the Globally Harmonized System (GHS).



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· Index number: 078-007-00-3

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#### Trade name: Potassium hexachloroplatinate(IV), 99%

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#### 4 First-aid measures

#### · Description of first aid measures

#### · General information:

Immediately remove any clothing soiled by the product.

In case of irregular breathing or respiratory arrest provide artificial respiration.

#### • After inhalation:

Supply fresh air and to be sure call for a doctor.

In case of unconsciousness place patient stably in side position for transportation.

- After skin contact: Immediately wash with water and soap and rinse thoroughly.
- · After eye contact: Rinse opened eye for several minutes under running water. Then consult a doctor.
- After swallowing: Do not induce vomiting; immediately call for medical help.
- Information for doctor:
- Most important symptoms and effects, both acute and delayed No further relevant information available.
- Indication of any immediate medical attention and special treatment needed
- No further relevant information available.

## **5** Fire-fighting measures

- · Extinguishing media
- Suitable extinguishing agents:

CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

- Special hazards arising from the substance or mixture No further relevant information available.
- · Advice for firefighters
- · Protective equipment: No special measures required.

#### 6 Accidental release measures

• *Personal precautions, protective equipment and emergency procedures Wear protective equipment. Keep unprotected persons away.* 

• Environmental precautions: No special measures required.

• *Methods and material for containment and cleaning up: Use neutralizing agent.* 

Dispose contaminated material as waste according to item 13. Ensure adequate ventilation.

- · Reference to other sections
- See Section 7 for information on safe handling. See Section 8 for information on personal protection equipment. See Section 13 for disposal information.

## 7 Handling and storage

· Handling:

- · Precautions for safe handling
- Thorough dedusting.
- Ensure good ventilation/exhaustion at the workplace.
- · Information about protection against explosions and fires: No special measures required.
- · Conditions for safe storage, including any incompatibilities

· Storage:

• Requirements to be met by storerooms and receptacles: No special requirements.

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- · Information about storage in one common storage facility: Not required.
- · Further information about storage conditions:
- Keep receptacle tightly sealed.
- Store in cool, dry conditions in well sealed receptacles.
- Specific end use(s) No further relevant information available.

#### 8 Exposure controls/personal protection

- Additional information about design of technical systems: No further data; see item 7.
- · Control parameters

· Components with limit values that require monitoring at the workplace:

16921-30-5 dipotassium hexachloroplatinate

- PEL Long-term value: 0.002 mg/m<sup>3</sup> as Pt *REL* Long-term value: 0.002 mg/m<sup>3</sup> as Pt
- TLV Long-term value: 0.002 mg/m<sup>3</sup> as Pt

· Additional information: The lists that were valid during the creation were used as basis.

- · Exposure controls
- · Personal protective equipment:
- · General protective and hygienic measures: Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing. Wash hands before breaks and at the end of work. Avoid contact with the eyes. Avoid contact with the eyes and skin.
- · Breathing equipment:

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

· Protection of hands:



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation · Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

· Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

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· Eye protection:

(Contd. of page 4)



Tightly sealed goggles

# 9 Physical and chemical properties

Appearance:CrystallineForm:CrystallineColor:OdorlessOdor threshold:Not determined.pH-value:Not determined.pH-value:Not applicable.Change in conditionCMelting point/Boiling range:250 dec °C (482 dec °F)Boiling point/Boiling range:no data °CFlash point:Not applicable.Flammability (solid, gaseous):Not determined.Ignition temperature:Not determined.Decomposition temperature:Not determined.Dage of explosion:Not determined.Lower:Not determined.Upper:Not determined.Vapor pressure:Not determined.Vapor densityNot determined.Vapor densityNot determined.Vapor densityNot determined.Vapor densityNot applicable.Evaporation rateNot applicable.Formined.Not applicable.Vapor densityNot applicable.Formined.Not applicable.Vapor densityNot applicable.Formined.Not applicable.Formined.Not applicable.Formined.Not applicable.Formined.Not applicable.Solublity in / Miscibility with Water:Insoluble.Soluble:Insoluble.Formined:Not applicable.Soluble:Not applicable.Soluble:Not applicable.Soluble:Not applicable.Soluble:Not applicable.Soluble:<	General Information		
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Solids content: 100.0 %	VOC content:	0.0 g/l / 0.00 lb/gl	
	Solids content:	100.0 %	



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• Other information

No further relevant information available.

#### **10 Stability and reactivity**

- · Reactivity No further relevant information available.
- · Chemical stability
- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- · Possibility of hazardous reactions No dangerous reactions known.
- · Conditions to avoid No further relevant information available.
- · Incompatible materials: No further relevant information available.
- · Hazardous decomposition products: No dangerous decomposition products known.

#### **11 Toxicological information**

- · Information on toxicological effects
- · Acute toxicity:
- Primary irritant effect:
- on the skin: No irritant effect.
- on the eye: Strong irritant with the danger of severe eye injury.
- · Sensitization:
- Sensitization possible through inhalation.
- Sensitization possible through skin contact.
- Additional toxicological information:

#### · Carcinogenic categories

· IARC (International Agency for Research on Cancer)

Substance is not listed.

#### · NTP (National Toxicology Program)

Substance is not listed.

#### · OSHA-Ca (Occupational Safety & Health Administration)

Substance is not listed.

#### **12** Ecological information

- · Toxicity
- · Aquatic toxicity: No further relevant information available.
- · Persistence and degradability No further relevant information available.
- · Behavior in environmental systems:
- · Bioaccumulative potential No further relevant information available.
- *Mobility in soil* No further relevant information available.
- · Additional ecological information:
- · General notes: Must not reach bodies of water or drainage ditch undiluted or unneutralized.
- · Results of PBT and vPvB assessment
- · **PBT:** Not applicable.
- · vPvB: Not applicable.
- · Other adverse effects No further relevant information available.

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## **13 Disposal considerations**

#### · Waste treatment methods

#### · Recommendation:

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

- · Uncleaned packagings:
- Recommendation: Disposal must be made according to official regulations.

UN-Number DOT, IMDG, IATA	UN3290
UN proper shipping name DOT, IATA IMDG	Toxic solid, corrosive, inorganic, n.o.s. TOXIC SOLID, CORROSIVE, INORGANIC, N.O.S.
	TOXIC SOLID, CORROSIVE, INOROMINIC, N.O.S.
Transport hazard class(es)	
DOT	
TOXIC CORROSIVE	
Class	6.1 Toxic substances
Label	6.1, 8
IMDG	
Class	6.1 Toxic substances
Label	6.1/8
ΙΑΤΑ	
Class	6.1 Toxic substances
Label	6.1 (8)
Packing group	
DOT, IMDG, IATA	Ι
Environmental hazards: Marine pollutant:	No
Special precautions for user	Not applicable.
Danger code (Kemler):	68
EMS Number: Stowage Category	F-A,S-B B



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Trade name: Potassium hexachloroplatinate(IV), 99%

	(Contd. of page
· Stowage Code	SW2 Clear of living quarters.
Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	f Not applicable.
· Transport/Additional information:	
· DOT · Quantity limitations	On passenger aircraft/rail: 1 kg On cargo aircraft only: 25 kg
· IMDG · Limited quantities (LQ) · Excepted quantities (EQ)	.5kg Code: E4 Maximum net quantity per inner packaging: 1 g Maximum net quantity per outer packaging: 500 g
· UN ''Model Regulation'':	UN 3290 TOXIC SOLID, CORROSIVE, INORGANIC, N.O.S., 6. (8), I

## **15 Regulatory information**

 $\cdot$  Safety, health and environmental regulations/legislation specific for the substance or mixture  $\cdot$  Sara

• Section 355 (extremely hazardous substances):
Substance is not listed.
· Section 313 (Specific toxic chemical listings):
Substance is not listed.
· TSCA (Toxic Substances Control Act):
Substance is listed.
· Proposition 65
· Chemicals known to cause cancer:
Substance is not listed.
· Chemicals known to cause reproductive toxicity for females:
Substance is not listed.
· Chemicals known to cause reproductive toxicity for males:
Substance is not listed.
· Chemicals known to cause developmental toxicity:
Substance is not listed.
· Carcinogenic categories
· EPA (Environmental Protection Agency)
Substance is not listed.
· TLV (Threshold Limit Value established by ACGIH)
Substance is not listed

Substance is not listed.

· NIOSH-Ca (National Institute for Occupational Safety and Health)

Substance is not listed.

· GHS label elements

The substance is classified and labeled according to the Globally Harmonized System (GHS).

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Hazard pictogr	
GHS05 GHS	506 GHS08
Signal word Da	inger
Hazard-determ	ining components of labeling:
	cachloroplatinate
Hazard stateme	
H301 Toxic if s	vallowed.
	rious eye damage.
	e allergy or asthma symptoms or breathing difficulties if inhaled.
H317 May caus	e an allergic skin reaction.
Precautionary s	statements
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P301+P310	IF SWALLOWED: Immediately call a POISON CENTER/ doctor.
<i>P303+P361+P</i> .	353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with w shower.
P305+P351+P	338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if pro and easy to do. Continue rinsing.
P403+P233	Store in a well-ventilated place. Keep container tightly closed.
P501	Dispose of contents/container in accordance with local/regional/national/internati regulations.
Chamical safet	wassessment: A Chemical Safety Assessment has not been carried out.

## **16 Other information**

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- · Department issuing SDS: Technical Department.
- · Contact: Technical Director
- · Date of preparation / last revision 07/31/2016 / -
- · 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 DOT: US Department of Transportation IATA: International Air Transport Association ACGIH: American Conference of Governmental Industrial Hygienists EINECS: European Inventory of Existing Commercial Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) NFPA: National Fire Protection Association (USA) HMIS: Hazardous Materials Identification System (USA) VOC: Volatile Organic Compounds (USA, EU) PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative NIOSH: National Institute for Occupational Safety OSHA: Occupational Safety & Health TLV: Threshold Limit Value PEL: Permissible Exposure Limit REL: Recommended Exposure Limit Acute Tox. 3: Acute toxicity, Hazard Category 3 Eye Dam. 1: Serious eye damage/eye irritation, Hazard Category 1 Resp. Sens. 1: Sensitisation - Respirat., Hazard Category 1 Skin Sens. 1: Sensitisation - Skin, Hazard Category 1