Printing date 07/19/2021

Reviewed on 07/19/2021

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

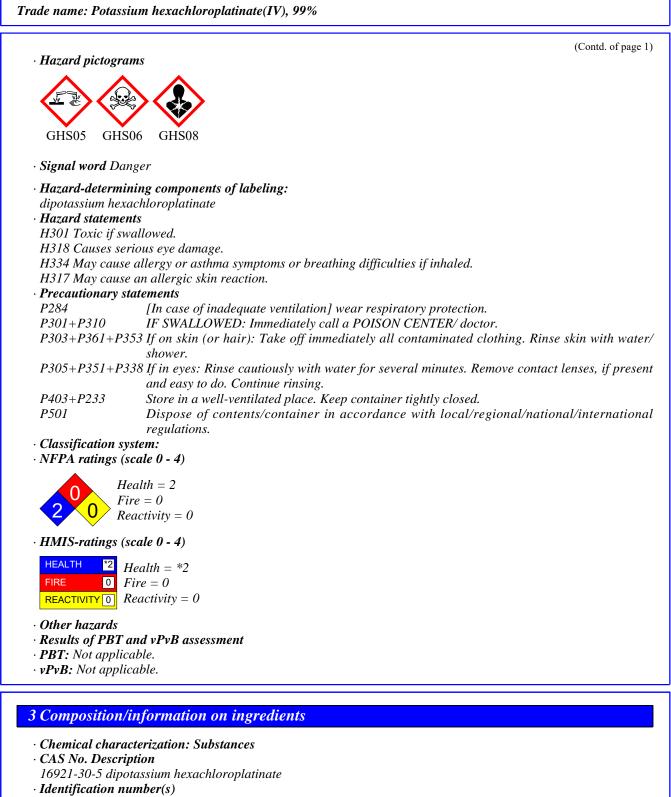
2 Hazard(s) identification

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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- EC number: 240-979-3
- · Index number: 078-007-00-3

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Trade name: Potassium hexachloroplatinate(IV), 99%

(Contd. of page 2)

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: Use fire fighting measures that suit the environment.
- 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.

· Protective Action Criteria for Chemicals

· PAC-1:

Substance is not listed.

· PAC-2:

Substance is not listed.

· PAC-3:

Substance is not listed.

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(Contd. of page 3)

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.
- · 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/m³ as Pt

- REL Long-term value: 0.002 mg/m³ as Pt
- TLV Long-term value: 0.002 mg/m³ as Pt

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

- · Exposure controls
- · Personal protective equipment: Wear protective clothing
- 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:** A NIOSH approved respirator in accordance with 29 CFR 1910.134.
- · 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 (Contd. on page 5)

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Safety Data Sheet according to OSHA HCS

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· 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.

• Eye protection:



Tightly sealed goggles

	T I T I	
Information on basic physical and	chemical properties	
General Information Appearance:		
Form:	Crystalline	
Color:	Yellow	
Odor:	Odorless	
Odor threshold:	Not determined.	
pH-value:	Not applicable.	
Change in condition		
Melting point/Melting range:	250 °C (482 °F)	
Boiling point/Boiling range:	Undetermined.	
Flash point:	Not applicable.	
Flammability (solid, gaseous):	Not determined.	
Ignition temperature:		
Decomposition temperature:	Not determined.	
Auto igniting:	Not determined.	
Danger of explosion:	Product does not present an explosion hazard.	
Explosion limits:		
Lower:	Not determined.	
Upper:	Not determined.	
Vapor pressure:	Not applicable.	
<i>Density at 20 °C (68 °F):</i>	3.499 g/cm³ (29.19916 lbs/gal)	
Relative density	Not determined.	
Vapor density	Not applicable.	
Evaporation rate	Not applicable.	
Solubility in / Miscibility with		
Water:	Insoluble.	
Partition coefficient (n-octanol/wat	er): Not determined.	
Viscosity:		
Dynamic:	Not applicable.	

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Trade name: Potassium hexachloroplatinate(IV), 99%

		(Contd. of page 5
Kinematic:	Not applicable.	
• Solvent content: Organic solvents: VOC content:	0.0 % 0.0 g/l / 0.00 lb/gl	
Solids content: • Other information	100.0 % 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.
- \cdot 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.

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· Results of PBT and vPvB assessment

· **PBT:** Not applicable.

· **vPvB:** Not applicable.

• Other adverse effects No further relevant information available.

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 IMDG, IATA	Toxic solid, corrosive, inorganic, n.o.s. TOXIC SOLID, CORROSIVE, INORGANIC, N.O.S.
Transport hazard class(es)	
DOT	
Class Label	6.1 Toxic substances 6.1, 8
IMDG	
Class Label	6.1 Toxic substances 6.1/8
IATA	
- Class	6.1 Toxic substances
Label	6.1 (8)
Packing group DOT, IMDG, IATA	Ι

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CHEMICALS, INC

Reviewed on 07/19/2021

Trade name: Potassium hexachloroplatinate(IV), 99%

	(Contd. of page
Environmental hazards:	
• Marine pollutant:	No
· Special precautions for user	Not applicable.
· Danger code (Kemler):	68
· EMS Number:	F- A , S - B
· Stowage Category	В
· Stowage Code	SW2 Clear of living quarters.
• Transport in bulk according to Annex	II of
MARPOL73/78 and the IBC Code	Not applicable.
Transport/Additional information:	
· DOT	
• Quantity limitations	On passenger aircraft/rail: 1 kg
~ '	On cargo aircraft only: 25 kg
· IMDG	
· Limited quantities (LQ)	.5kg
\cdot Excepted quantities (\widetilde{EQ})	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.

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Trade name: Potassium hexachloroplatinate(IV), 99%

(Contd. of page 8)

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). Hazard pictograms Image: Comparison of the Globally Harmonized System (GHS). GHS 05 GHS06 GHS05 GHS06 GHS05 GHS06 Signal word Danger Hazard-determining components of labeling: dipotassium hexachloroplatinate Hazard statements H301 Toxic if swallowed. H318 Causes serious eye damage. H334 May cause an allergy or asthma symptoms or breathing difficulties if inhaled. H317 May cause an allergic skin reaction. Precautionary statements Pasa P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor. P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor. P305+P351+P338 If on eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if press 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/interna	Substance is no	t listed.
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	P501	

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 07/19/2021 / -
- 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

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US

Printing date 07/19/2021

CHEMICALS, INC.

Reviewed on 07/19/2021

Trade name: Potassium hexachloroplatinate(IV), 99%

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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 – Category 3 Eye Dam. 1: Serious eye damage/eye irritation – Category 1 Resp. Sens. 1: Respiratory sensitisation – Category 1 Skin Sens. 1: Skin sensitisation – Category 1