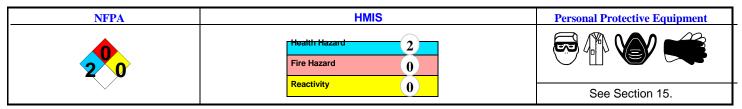




# **Material Safety Data Sheet**



Section 1. Chem	ical Product and Company Identification	ו		Page Number: 1
Common Name/ Trade Name	Potassium hexachloroplatinate	e (IV)	Catalog Number(s).	P1311
			CAS#	16921-30-5
Manufacturer	SPECTRUM CHEMICAL MFG. CORP. 14422 S. SAN PEDRO STREET GARDENA, CA 90248		RTECS	TP1650000
			TSCA	TSCA 8(b) inventory Potassium hexachloroplatinate (IV)
Commercial Name(s)	Not available.		CI#	Not available.
Synonym	Platinate(2-), hexachloro-, dipotassium Dipotassium hexachloroplatinate Dipotassium platinum hexachloride Platinic potassium chloride Potassium chloroplatinate Potassium platinic chloride			EMERGENCY (24hr) 800-424-9300
Chemical Name	Platinate(2-), hexachloro-, potassium (1:2)			
Chemical Family	Not available.		CALL (310) 5	16-8000
Chemical Formula	K2PtCl6		_	
Supplier	SPECTRUM CHEMICAL MFG. CORP. 14422 S. SAN PEDRO STREET GARDENA, CA 90248			
Section 2.Compo	osition and Information on Ingredients	-		
			Exposure Limits	

			Exposure Limits		1
Name	CAS #	TWA (mg/m <sup>3</sup> )	STEL (mg/m <sup>3</sup> )	CEIL (mg/m <sup>3</sup> )	% by Weight
1) Potassium hexachloroplatinate (IV)	16921-30-5	0.002			100

Toxicological Data on Ingredients Potassium hexachloroplatinate (IV) LD50: Not available.

LC50: Not available.

Section 3. Hazards Identification

Potential Acute Health Effects Hazardous in case of skin contact (irritant, sensitizer), of eye contact (irritant), of ingestion, of inhalation (lung sensitizer). Severe over-exposure can result in death.

Potassium hexachle	proplatinate (IV)	Page Number: 2
Potential Chronic Health Effects	Slightly hazardous in case of skin contact (sensitizer). <b>CARCINOGENIC EFFECTS</b> : Not available. <b>MUTAGENIC EFFECTS</b> : Mutagenic for mammalian somatic cells. Mutagenic for <b>TERATOGENIC EFFECTS</b> : Not available. <b>DEVELOPMENTAL TOXICITY</b> : Not available. The substance may be toxic to kidneys, lungs, liver, upper respiratory tract, skin Repeated or prolonged exposure to the substance can produce target organs d to a highly toxic material may produce general deterioration of health by an a human organs.	amage. Repeated exposure
Section 4. First Aid	Measures	
Eye Contact	Check for and remove any contact lenses. In case of contact, immediately flu for at least 15 minutes. Cold water may be used. Get medical attention immediately flue for at least 15 minutes.	
Skin Contact	In case of contact, immediately flush skin with plenty of water for at least contaminated clothing and shoes. Cover the irritated skin with an emollient. Co clothing before reuse. Thoroughly clean shoes before reuse. Get medical attempts	old water may be used.Wash
Serious Skin Contact	Wash with a disinfectant soap and cover the contaminated skin with an a immediate medical attention.	nti-bacterial cream. Seek
Inhalation	If inhaled, remove to fresh air. If not breathing, give artificial respiration. If brea Get medical attention.	thing is difficult, give oxygen.
Serious Inhalation	Not available.	
Ingestion	If swallowed, do not induce vomiting unless directed to do so by medical person mouth to an unconscious person. Loosen tight clothing such as a collar, tie, be attention immediately.	
Serious Ingestion	Not available.	
Section 5. Fire and E	Explosion Data	
Flammability of the Product	Non-flammable.	
Auto-Ignition Temperature	Not applicable.	

Not applicable.
Not applicable.
Not applicable.
Not available.
Not applicable.
Risks of explosion of the product in presence of mechanical impact: Not available. Risks of explosion of the product in presence of static discharge: Not available.
Not applicable.
Not available.
Not available.

 Potassium hexachloroplatinate (IV)
 Page Number: 3

 Section 6. Accidental Release Measures
 Image: Spill
 Use appropriate tools to put the spilled solid in a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional authority requirements.

 Large Spill
 Poisonous solid.

 Stop leak if without risk. Do not get water inside container. Do not touch spilled material. Use water spray to reduce vapors. Prevent entry into sewers, basements or confined areas; dike if needed. Call for assistance on disposal. Finish cleaning by spreading water on the contaminated surface and allow to evacuate through the sanitary system. Be careful that the product is not present at a concentration level above TLV. Check TLV on the MSDS and with local authorities.

### Section 7. Handling and Storage

Precautions	Do not ingest. Do not breathe dust. Wear suitable protective clothing. In case of insufficient ventilation, wear suitable respiratory equipment. If ingested, seek medical advice immediately and show the container or the label. Avoid contact with skin and eyes.
Storage	Keep container tightly closed. Keep container in a cool, well-ventilated area.

## Section 8. Exposure Controls/Personal Protection

Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.
Splash goggles. Lab coat. Dust respirator. Be sure to use an approved/certified respirator or equivalent. Gloves.
Splash goggles. Full suit. Dust respirator. Boots. Gloves. A self contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.
TWA: 0.002 (mg/m <sup>3</sup> ) (as Pt) from ACGIH (TLV) [United States] TWA: 0.002 (mg/m <sup>3</sup> ) (as Pt) from OSHA (PEL) [United States] TWA: 0.002 STEL: 0.006 (mg/m <sup>3</sup> ) (as Pt) [Canada]

Consult local authorities for acceptable exposure limits.

## Section 9. Physical and Chemical Properties

Physical state and appearance	Solid. (Crystalline solid. Powdered solid.)	Odor	Not available.
Molecular Weight	485.99 g/mole	Taste	Not available.
pH (1% soln/water)	Not available.	Color	Orange-Yellow. Yellow.
Boiling Point	Not available.		
Melting Point	Decomposes.		
Critical Temperature	Not available.		
Specific Gravity	3.5 (Water = 1)		
Vapor Pressure	Not applicable.		
Vapor Density	Not available.		
Volatility	Not available.		
Odor Threshold	Not available.		
Water/Oil Dist. Coeff.	Not available.		
Ionicity (in Water)	Not available.		
Dispersion Properties	See solubility in water.		

Potassium hexachle	oroplatinate (IV) Pag	ge Number: 4
Solubility	Soluble in hot water. Slightly soluble in cold water Solubility in Water: 0.77g/100g water @ 20 deg. C.; 5.22% @ 100 deg. C. Insolubile in Ethanol	
Section 10. Stability	and Reactivity Data	
Stability	The product is stable.	
Instability Temperature	Not available.	
Conditions of Instability	Incompatible materials, dust generation	
Incompatibility with various substances	Reactive with oxidizing agents, metals, acids.	
Corrosivity	Non-corrosive in presence of glass.	
Special Remarks on Reactivity	Not available.	
Special Remarks on Corrosivity	Not available.	
Polymerization	Will not occur.	
Section 11. Toxicolo	gical Information	
Routes of Entry	Dermal contact. Eye contact. Inhalation. Ingestion.	
Toxicity to Animals	LD50: Not available. LC50: Not available.	
Chronic Effects on Humans	<b>MUTAGENIC EFFECTS</b> : Mutagenic for mammalian somatic cells. Mutagenic for bacteria a May cause damage to the following organs: kidneys, lungs, liver, upper respiratory tract, skin	
Other Toxic Effects on Humans	Hazardous in case of skin contact (irritant, sensitizer), of ingestion, of inhalation (lung sensit	zer).
Special Remarks on Toxicity to Animals	Not available.	
Special Remarks on Chronic Effects on Humans	May affect genetic material (mutagenic)	
Special Remarks on other Toxic Effects on Humans	Acute Potential Health Effects: Skin: Causes skin irritation. May cause skin sensitization and allergic skin reaction upon re Eyes: Causes eye irritation. Risk of serious damage to eyes. Inhalation: Causes respiratory tract irritation. May cause allergic inhalation reactions such bronchitis with sneezing, runny eyes, and coughing. Ingestion: May cause gastrointestinal tract irritation with nausea, vomiting, diarrhea. Chronic exposure by skin contact may cause allergic contact dermatitis Chronic exposure by inhalation may cause allergic reaction such as asthma with symp tightness of the chest, wheezing, and shortness of breath.	n allergic rhinitis,
Section 12. Ecologic	cal Information	
Ecotoxicity	Not available.	
BOD5 and COD	Not available.	
Products of Biodegradation	Possibly hazardous short term degradation products are not likely. However, long te products may arise.	rm degradation
Toxicity of the Products of Biodegradation	The products of degradation are less toxic than the product itself.	
Special Remarks on the Products of Biodegradation	Not available.	

Potassium hexac	hloroplatinate (IV)		Page Number: 5
Section 13. Dispo	sal Considerations		
Vaste Disposal	Waste must be disp control regulations.		deral, state and local environmental
Section 14. Trans	port Information		
DOT Classification	Not a DOT controlled m	naterial (United States).	
dentification	Not applicable.		
Special Provisions for Fransport	Not applicable.		
DOT (Pictograms)			
	Regulatory Informatio	-	
Federal and State Regulations		hexachloroplatinate (IV) Potassium hexachloroplatinate (IV)	
Canfornia Proposition 65 Varnings	California prop. 65: This product contains the following ingredients for which the State of California ha found to cause cancer which would require a warning under the statute: No products were found. California prop. 65: This product contains the following ingredients for which the State of California ha found to cause birth defects which would require a warning under the statute: No products were found.		
Other Regulations	OSHA: Hazardous by	definition of Hazard Communication S	tandard (29 CFR 1910.1200).
Other Classifications	WHMIS (Canada)	CLASS D-2B: Material causing other t	oxic effects (TOXIC).
	F e F	R25- Toxic if swallowed. R41- Risk of serious damage to eyes. R42/43- May cause sensitization by inhalation and skin contact. S36/37/39- Wear suitable protective of gloves and eye/face protection. S45- In case of accident or if you feel seek medical advice immediately (sho label where possible).	
HMIS (U.S.A.)	Health Hazard Fire Hazard Reactivity Personal Protection	2 National Fire Protection 0 Association (U.S.A.) 0 (E)	Health Flammability Reactivity Specific hazard
WHMIS (Canada) (Pictograms)			
DSCL (Europe) (Pictograms)	×		
Continued on Ne	ext Page		

Potassium hex	kachloroplatinate	(IV)	Page Number: 6
TDG (Canada) (Pictograms)			
ADR (Europe) (Pictograms)			
Protective Equipm	nent	Gloves.	
		Lab coat.	
		Dust respirator. Be sure to use an approved/certified respirator or equivalent. Wear appropriate respirator when ventilation is inadequate.	
		Splash goggles.	
Section 16. Oth	or Information		
MSDS Code	P4345		
References	Not available.		
Other Special Considerations	Not available.		
Validated by Sonia Ow	ven on 11/1/2011.		by Sonia Owen. 11/1/2011.
CALL (310) 516-8000			

#### Notice to Reader

All chemicals may pose unknown hazards and should be used with caution. This Material Safety Data Sheet (MSDS) applies only to the material as packaged. If this product is combined with other materials, deteriorates, or becomes contaminated, it may pose hazards not mentioned in this MSDS. It shall be the user's responsibility to develop proper methods of handling and personal protection based on the actual conditions of use. While this MSDS is based on technical data judged to be reliable, Spectrum Quality Products, Inc. assumes no responsibility for the completeness or accuracy of the information contained herein.