

# SAFETY DATA SHEET

Creation Date 12-Oct-2010

Revision Date 19-Jan-2018

**Revision Number** 3

# 1. Identification

Product Name

# Potassium tetrachloroplatinate(II)

Cat No. :

CAS-No Synonyms 10025-99-7 Potassium platinochloride; Platinous potassium chloride; Potassium chloroplatinite

AC195360000; AC195360010; AC195360050; AC195360250

Recommended Use Uses advised against Laboratory chemicals. Not for food, drug, pesticide or biocidal product use

## Details of the supplier of the safety data sheet

Company Fisher Scientific One Reagent Lane Fair Lawn, NJ 07410 Tel: (201) 796-7100

Acros Organics One Reagent Lane Fair Lawn, NJ 07410

## **Emergency Telephone Number**

For information **US** call: 001-800-ACROS-01 / **Europe** call: +32 14 57 52 11 Emergency Number **US**:001-201-796-7100 / **Europe**: +32 14 57 52 99 **CHEMTREC** Tel. No.**US**:001-800-424-9300 / **Europe**:001-703-527-3887

## 2. Hazard(s) identification

## **Classification**

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

Aguta and taxiaity	Cotogony 2
Acute oral toxicity	Category 3
Skin Corrosion/irritation	Category 2
Serious Eye Damage/Eye Irritation	Category 1
Respiratory Sensitization	Category 1
Skin Sensitization	Category 1
Specific target organ toxicity (single exposure)	Category 3
Target Organs - Respiratory system.	

### Label Elements

Signal Word Danger

## **Hazard Statements**

Toxic if swallowed Causes skin irritation Causes serious eye damage May cause allergy or asthma symptoms or breathing difficulties if inhaled May cause an allergic skin reaction May cause respiratory irritation



## Precautionary Statements

## Prevention

Wash face, hands and any exposed skin thoroughly after handling

Do not eat, drink or smoke when using this product

Wear protective gloves/protective clothing/eye protection/face protection

Avoid breathing dust/fume/gas/mist/vapors/spray

In case of inadequate ventilation wear respiratory protection

Contaminated work clothing should not be allowed out of the workplace

Use only outdoors or in a well-ventilated area

## Inhalation

If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

## Skin

IF ON SKIN: Wash with plenty of soap and water

Take off contaminated clothing and wash before reuse

If skin irritation or rash occurs: Get medical advice/attention

## Eyes

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing Immediately call a POISON CENTER or doctor/physician

## Ingestion

IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician

Rinse mouth

## Storage

Store locked up

Store in a well-ventilated place. Keep container tightly closed

## Disposal

Dispose of contents/container to an approved waste disposal plant

Hazards not otherwise classified (HNOC)

None identified

## 3. Composition/Information on Ingredients

Component		CAS-No	Weight %					
Potassium tetrac	hloroplatinate(II)	10025-99-7	>95					
	4							
	4.	First-aid measures						
Eye Contact		liately with plenty of water, also under edical attention is required.	the eyelids, for at least 15 minutes.					
Skin Contact	Wash off imn	Wash off immediately with plenty of water for at least 15 minutes. Obtain medical attention.						
Inhalation	victim ingeste mask equipp	Move to fresh air. If breathing is difficult, give oxygen. Do not use mouth-to-mouth method if victim ingested or inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Immediate medical attention is required.						
Ingestion	Do not induc	e vomiting. Call a physician or Poison	Control Center immediately.					

Most important symptom effects Notes to Physician	inhaled. May itching, swell lightheadedn	Causes eye burns. May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause allergic skin reaction. Symptoms of allergic reaction may include rash, itching, swelling, trouble breathing, tingling of the hands and feet, dizziness, lightheadedness, chest pain, muscle pain or flushing Treat symptomatically						
	5. Fi	re-fighting meas	sures					
Suitable Extinguishing M	edia Use water sp	ray, alcohol-resistant foar	n, dry chemical or carbon o	dioxide.				
Unsuitable Extinguishing	<b>Media</b> No information	on available						
Flash Point Method -	No informatic No informatic							
Autoignition Temperature Explosion Limits Upper Lower Sensitivity to Mechan Sensitivity to Static D Specific Hazards Arising This material poses an exp and empty container away	No data avail No data avail <b>ical Impact</b> No informatic <b>ischarge</b> No informatic <b>from the Chemical</b> blosion hazard. Thermal de	able on available on available ecomposition can lead to re	elease of irritating gases a	nd vapors. Keep product				
Hazardous Combustion I Hydrogen chloride gas Pla Protective Equipment an As in any fire, wear self-co protective gear.	tinum oxide d Precautions for Firefig		IA/NIOSH (approved or ed	quivalent) and full				
NFPA Health 3	Flammab 1	ility In	stability 0	Physical hazards N/A				
	6. Accio	lental release m	easures					
Personal Precautions		I protective equipment. Eva						
Environmental Precautio		void dust formation. Do no e to the environment.	t get in eyes, on skin, or o	n clothing.				
Methods for Containmen Up	t and Clean Sweep up or formation.	vacuum up spillage and co	ollect in suitable container	for disposal. Avoid dust				
	7. H	andling and stor	age					
Handling	Use only und	ler a chemical fume hood. o not breathe vapors/dust.	Wear personal protective					
Storage	Keep contain	ers tightly closed in a dry,	cool and well-ventilated pl	ace.				
Exposure Guidelines	8. Exposure o	controls / person	al protection					
Component	ACGIH TLV	OSHA PEL	NIOSH IDLH	Mexico OEL (TWA)				
Potassium tetrachloroplatinate(II)	TWA: 0.002 mg/m <sup>3</sup>	(Vacated) TWA: 0.002 mg/m <sup>3</sup>	IDLH: 4 mg/m <sup>3</sup> TWA: 0.002 mg/m <sup>3</sup>	TWA: 0.002 mg/m <sup>3</sup>				

<u>Legend</u>

ACGIH - American Conference of Governmental Industrial Hygienists
OSHA - Occupational Safety and Health Administration
NIOSH IDLH: The National Institute for Occupational Safety and Health Immediately Dangerous to Life or Health

Engineering Measures	Use only under a chemical fume hood. Ensure that eyewash stations and safety showers are close to the workstation location.
Personal Protective Equipment	
Eye/face Protection	Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.
Skin and body protection	Wear appropriate protective gloves and clothing to prevent skin exposure.
Respiratory Protection	Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.
Hygiene Measures	Handle in accordance with good industrial hygiene and safety practice.

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9.	PHVSICal	anu	Chemical	properties

7. Thysical and chemical properties					
Physical State	Solid				
Appearance	Red brown				
Odor	Odorless				
Odor Threshold	No information available				
рН	4-5 10 g/L aq.sol				
Melting Point/Range	250 °C / 482 °F				
Boiling Point/Range	No information available				
Flash Point	No information available				
Evaporation Rate	Not applicable				
Flammability (solid,gas)	No information available				
Flammability or explosive limits					
Upper	No data available				
Lower	No data available				
Vapor Pressure	No information available				
Vapor Density	Not applicable				
Specific Gravity	3.499				
Solubility	10 g/L (20°C)				
Partition coefficient; n-octanol/water	No data available				
Autoignition Temperature					
Decomposition Temperature	250 °C				
Viscosity	Not applicable				
Molecular Formula	CI4 K2 Pt				
Molecular Weight	415.1				
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# 10. Stability and reactivity

Reactive Hazard None known, based on information available				
Stability	Stable under normal conditions.			
Conditions to Avoid	Incompatible products. Excess heat. Avoid dust formation.			
Incompatible Materials	Strong oxidizing agents, Acids			
Hazardous Decomposition Product	<b>s</b> Hydrogen chloride gas, Platinum oxide			

Hazardous Polymer	rization	Hazardous polyme	rization does not o	occur.					
Hazardous Reaction	ns	None under normal processing.							
		11. Toxico	logical info	ormation					
Acute Toxicity									
Product Information	-	No acute toxicity in	formation is availa	ble for this produc	zt				
Toxicologically Syn Products	ergistic	No information ava							
Delayed and immed	liate effects as w	ell as chronic effec	cts from short an	d long-term expo	osure				
Irritation		Severe eye irritant,	Irritating to skin						
Sensitization		No information ava	ilable						
Carcinogenicity		The table below inc	dicates whether ea	ach agency has lis	ted any ingredient	as a carcinogen.			
Component	CAS-No	IARC	NTP	ACGIH	OSHA	Mexico			
Potassium tetrachloroplatinate(II)	10025-99-7	Not listed	Not listed	Not listed	Not listed	Not listed			
Mutagenic Effects		No information ava	ilable						
Reproductive Effec	productive Effects No information available.								
Developmental Effe	ects	No information available.							
Teratogenicity		No information ava	ilable.						
STOT - single expo STOT - repeated ex		Respiratory system None known							
Aspiration hazard		No information available							
Symptoms / effects delayed	s,both acute and	and Symptoms of allergic reaction may include rash, itching, swelling, trouble breathing, tingling of the hands and feet, dizziness, lightheadedness, chest pain, muscle pain or flushing							
Endocrine Disrupto	or Information	No information ava	ilable						
Other Adverse Effe	cts	The toxicological properties have not been fully investigated.							
		12. Ecolo	ogical infor	mation					
<u>Ecotoxicity</u> Do not empty into dra	ains.								
Persistence and De	gradability	May persist based	on information av	ailable.					
Bioaccumulation/ A	ccumulation	No information ava	ilable.						
Mobility		Will likely be mobile	e in the environme	ent due to its water	solubility.				
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## 13. Disposal considerations

	13. Disposal considerations
Waste Disposal Methods	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.

# 14. Transport information

DOT	
UN-No	UN3288
Proper Shipping Name	TOXIC SOLID, INORGANIC, N.O.S.
Proper technical name	Potassium tetrachloroplatinate(II)
Hazard Class	6.1
Packing Group	
TDG	
UN-No	UN3288
Proper Shipping Name	TOXIC SOLID, INORGANIC, N.O.S.
Hazard Class	6.1
Packing Group	
IATA	III
UN-No	UN3288
Proper Shipping Name	Toxic solid, inorganic, n.o.s
Hazard Class	6.1
Packing Group	III
IMDG/IMO	
UN-No	UN3288
Proper Shipping Name	Toxic solid, inorganic, n.o.s
Hazard Class	6.1
Packing Group	III
	15. Regulatory information

### International Inventories

Component	TSCA	DSL	NDSL	EINECS	ELINCS	NLP	PICCS	ENCS	AICS	IECSC	KECL
Potassium	Х	Х	-	233-050-9	-		Х	Х	Х	Х	Х
tetrachloroplatinate(II)											

Legend: X - Listed

E - Indicates a substance that is the subject of a Section 5(e) Consent order under TSCA. F - Indicates a substance that is the subject of a Section 5(f) Rule under TSCA.

N - Indicates a polymeric substance containing no free-radical initiator in its inventory name but is considered to cover the designated polymer made with any free-radical initiator regardless of the amount used.

P - Indicates a commenced PMN substance

R - Indicates a substance that is the subject of a Section 6 risk management rule under TSCA.

S - Indicates a substance that is identified in a proposed or final Significant New Use Rule

T - Indicates a substance that is the subject of a Section 4 test rule under TSCA.

XU - Indicates a substance exempt from reporting under the Inventory Update Rule, i.e. Partial Updating of the TSCA Inventory Data Base Production and Site Reports (40 CFR 710(B).

Y1 - Indicates an exempt polymer that has a number-average molecular weight of 1,000 or greater.

Y2 - Indicates an exempt polymer that is a polyester and is made only from reactants included in a specified list of low concern reactants that comprises one of the eligibility criteria for the exemption rule.

## U.S. Federal Regulations

TSCA 12(b)	Not applicable	
SARA 313	Not applicable	
SARA 311/312 Hazard Categories	See section 2 for more information	
CWA (Clean Water Act)	Not applicable	
Clean Air Act	Not applicable	
<b>OSHA</b> Occupational Safety and Health Administration Not applicable		
CERCLA	Not applicable	

## **California Proposition 65**

This product does not contain any Proposition 65 chemicals

#### U.S. State Right-to-Know Regulations

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Component	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Potassium	-	-	Х	-	Х
tetrachloroplatinate(II)					

## U.S. Department of Transportation

Reportable Quantity (RQ):	Ν
DOT Marine Pollutant	N
DOT Severe Marine Pollutant	Ν

### **U.S. Department of Homeland Security**

This product does not contain any DHS chemicals.

### Other International Regulations

Mexico - Grade	No information available		
	16. Other information		
Prepared By	Regulatory Affairs Thermo Fisher Scientific Email: EMSDS.RA@thermofisher.com		
Creation Date Revision Date Print Date Revision Summary	12-Oct-2010 19-Jan-2018 19-Jan-2018 This document has been updated to comply with the US OSHA HazCom 2012 Standard replacing the current legislation under 29 CFR 1910.1200 to align with the Globally Harmonized System of Classification and Labeling of Chemicals (GHS).		

## Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text

# **End of SDS**