

## SAFETY DATA SHEET

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<b>'</b>			1		1	1 1			Dat	e Revise	d: 24/01	/2023
	ta a	· :		1. 			1. 	1		1	1	
SEC	CTION	1. ID	ENT	IFICA								
	uct Name						1 1		.1	1 I		.:
CAS	#: 10025-	99-7	·	<sup>1</sup>		1. j. j.		.1	1 			1.1
Relev	vant ident	ified us	ses of t	he subs	tance: S	Scienti	fic resea	rch and	devel	opment		
Supp	lier detai	s:										
Stanfo E-mai	ord Advar il: sales@	iced Ma samatei	terials rials.co	m			1 - 1 1		, i		:**	,÷
Tel: (	949) 407-8	390,4	·			·			·			1.1
	ess: 2366´											
	1.1											11
SEC	CTION	2. H/	AZAI	RD'S I	DENT	<b>IFIC</b>	ΑΤΙΟ	N			111	
Class	ification o	f the sul	bstance	e or mixtu	ure in ac	cordan	ce with 2	29 CFR 1	910 (C	SHA HC	S)	·
GHSC	)6 Skull ai	nd cross	sbones									
	Tox. 3 H		. * *			. * *	1			1.1		. 11
				anowed.								
	08 Health											.1
Resp.	. Sens. 1	1334 M	ay caus	se allergy	/ or asth	ma syr	nptoms c	or breath	ıng diffi	culties if	inhaled.	
	)5 Corrosi				,				•			

Met. Corr 1 H290 May be corrosive to metals.

Eye Dam. 1 H318 Causes serious eye damage.

GHS07

Skin Irrit. 2 H315 Causes skin irritation.

		'	1						
Skin Sens. 1 H317 May cause an aller	gic skin	reactio	n. <sub>, ,</sub> ,	.:	·		.1	·	'
Hazards not otherwise classified No da	ata avail	able							
GHS label elements, including precaut	ionary s	tateme	nts						·
Hazard pictograms GHS05 GHS06 GHS08		.1	1 1 1	1 1 1 1		• •		.÷	
Signal word DangerHazard statements	6	·			1		.1	1	'
H290 May be corrosive to metals. H301 Toxic if swallowed.				1 1 1		<b>'</b>			÷
H315 Causes skin irritation.									
H318 Causes serious eye damage.									
H334 May cause allergy or asthma syr	nptoms	or brea	thing diff	iculties if	inhale	d.		1	'
H317 May cause an allergic skin reacti									
Precautionary statements		,					,		
P284 In case of inadequate ventilation	wear re	spirato	ry protec	tion.					
P261 Avoid breathing dust/fume/gas/m									
P301+P310 IF SWALLOWED: Immedi	ately ca	ll a POI	SON CE	NTER/ d		'		<b>'</b>	'
P305+P351+P338 IF IN EYES: Rinse	cautious	ly with	water for	several	minute	s. Remo	ve conta	ct ,	·
lenses, if present and easy to do. Cont	inue rins	sing.							
P405 Store locked up.		.:	1 I				111	.1	
P501 Dispose of contents/container in	accorda	ince wit	h local/re	egional/n	ational	/internati	onal	·	
regulations.	i			I					
WHMIS classification			1			1			· · ·
D1A - Very toxic material causing imm									
D2A - Very toxic material causing othe	r toxic e	ffects	1				111		
Classification system		·			·			1	'
HMIS ratings (scale 0-4) (Hazardous Materials Identification Sys	stem)		1. 	1		·	1		÷
HEALTH , FIRE	: · ·	.:	 	:**	.:	· · · ·	;••	.:	
REACTIVITY	.1			,i	1 		.:	1 	'

								1 1 1					
2			1		.1	·			·		.:	1	'
0													
1	1		. * *	·			1		. * *	1.1.1	1		·
Health	(acute et	,											
Flamm	ability = (	0			: * *	. 1					1.1.1		
Physic	al Hazaro	d =, 1	1 1	<sup>1</sup>			<sup>1</sup>	,ł			.:	1 1	'
	hazards s of PBT						1	1	. * *	5	1	.''	÷
PBT: N vPvB:		:	.:		;	.:			.:	1 I 1	111	.:	
1.1			1			1.1			1			1	

## SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substances									: ' '	
CAS No. / Substance Nam				·						
10025-99-7 Potassium tetr						1				
Identification number(s):		·	1			`: 	. * *	1	1	. * *
EC number: 233-050-9										
Index number: 078-004-00	)-7			.1	1 - 1 - 1		.1	н н н		.1

#### SECTION 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. If inhaled: Supply patient with fresh air. If not breathing, provide artificial respiration. Keep patient warm.

Seek immediate medical advice.

In case of skin contact:

Immediately wash with soap and water; rinse thoroughly.

			. '							
Seek immediate medical	advice.	.:	1			1			·	
In case of eye contact:										
Rinse opened eye for sev	eral minutes u	nder ru	unning v	vater. Con	sult a p	hysicia	in.			
If swallowed:										
Do not induce vomiting; ir	nmediately cal	l for m	edical h	elp.					.:	
Information for doctor	·	.:	1		.:	1. 			·	
Most important symptoms	and effects, b	oth ac	ute and	delayed:			·	· .		
No data available		,	1						1	
Indication of any immedia	ite medical atte	ention a	and spe	cial treatm	nent nee	eded:				
No data available			1	I.					1	
	the second second	.:	1.00		.:	1.0	1. C		1.1	

## **SECTION 5. FIREFIGHTING MEASURES**

Extinguishing media	1 - 1 1	: · · ·				.:		: • •	.:
Suitable extinguishing ager surrounding fire.									<u>'</u>
Special hazards arising fro	m the substa	nce or n	nixture	1 			1	1	
If this product is involved in	n a fire, the fo	llowing	can be	released:					
Hydrogen chloride (HCI)	1 - 1 1	111		1 - 1 1	; • •		н н н	:**	1
Metal oxide fume		. 1	·			1			1
Potassium oxide									
Advice for firefighters							<u>ан</u>		
Protective equipment:									
Wear self-contained respire	ator.			1					
Wear fully protective imper	vious suit.	. :		<sup>1</sup>		1		.:	1

### **SECTION 6. ACCIDENTAL RELEASE MEASURES**

Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Keep unprotected persons away.

Ensure adequate ventilation		'		·			·
Environmental precautions: Do not allow material t	to be r	eleased t	o the e	nvironn	nent withou	ut officia	al
permits.		'			1		
Methods and materials for containment and cleanu							
according to section 13.	1						
Prevention of secondary hazards: No special meas	sures	required.		1		.1	5
Reference to other sections		·			·		
See Section 7 for information on safe handling			1			1	
See Section 8 for information on personal protection	on equ	ipment.	1 1 1	:		; • •	
See Section 13 for disposal information.					i.		
<u>in in production productions productions</u>			.:	1		.:	·
and the state of the		·			·		
SECTION 7. HANDLING AND ST	ror	AGE	,				
Handling	1	r - r -					.:
Precautions for safe handlingKeep container tightly							
Store in cool, dry place in tightly closed containers.			.'			.'	
Ensure good ventilation at the workplace.					1	`:	
Prevent formation of dust.							
Information about protection against explosions an	d fires	: The pro	duct is	not flar	nmable	:	
Conditions for safe storage, including any incompa	atibilitie	es		·			·
Requirements to be met by storerooms and recept	acles:	No spec					
Information about storage in one common storage	facility	/:			1		
Do not store together with acids.							
Store away from oxidizing agents.			1.1.1			1.1.1	
Store away from metals.		'	.:	1		.:	5
Further information about storage conditions:							
Keep container tightly sealed.			1				
Store in cool, dry conditions in well-sealed containe	ers.						:
Specific end use(s) No data available							

# SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Additional information about design of technical systems: Properly operating chemical fume hood designed for hazardous chemicals and having an average face velocity of at least 100 feet per minute. **Control parameters** Components with limit values that require monitoring at the workplace: 10025-99-7 Potassium tetrachloroplatinate(II) (100.0%) PEL (USA) Long-term value: 0.002 mg/m 3 . . as Pt REL (USA) Long-term value: 0.002 mg/m 3 as Pt TLV (USA) Long-term value: 0.002 mg/m 3 as Pt EL (Canada) Long-term value: 0.002 mg/m 3 as Pt; S EV (Canada) Long-term value: 0.002 mg/m 3 as Pt Additional information: No data Exposure controls Personal protective equipment Follow typical protective and hygienic practices for handling chemicals. Keep away from foodstuffs, beverages and feed. Remove all soiled and contaminated clothing immediately.

Wash hands before breaks and at the end of work.

Avoid contact with the eyes and skin.

Maintain an ergonomically appropriate working environment.

Breathing equipment: Use suitable respirator when high concentrations are present. Recommended filter device for short term use:

Use a respirator with type P100 (USA) or P3 (EN 143) cartridges as a backup to engineering controls.

Risk assessment should be performed to determine if airpurifying

respirators are appropriate. Only use equipment tested and approved under appropriate government standards.

Protection of hands:

Impervious glovesInspect gloves prior to use.

The selection of suitable gloves not only depends on the material, but also on quality. Quality will vary

from manufacturer to manufacturer.

Material of gloves Nitrile rubber, NBR Penetration time of glove material (in minutes) 480

Glove thickness 0.11 mm

Eye protection: Tightly sealed goggles

Body protection: Protective work clothing.

## **SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

Information on basic phy	sical a	nd chemic	al prope	erties			.:		: ' '	
Appearance: Form: Crystalline	·		.:	1		;	·		.:	°
Color: Red-brown		1			1. 			1		
Odor: Odorless										
Odor threshold: No data	availat	ole.	· · · ·	. :	· · ·		.:		: 1	.1
pH: N/A	·				'		·		.1	1

		,				1			
Melting point/Melting range: Decomposes				.:	·		.:	·	'
Boiling point/Boiling range: No data availa	ble								
Sublimation temperature / start: No data a	vailable	2 2	1			1			·
Flammability (solid, gas) No data available									
Ignition temperature: No data available									
Decomposition temperature: No data avai	lable			1	'			1	'
Autoignition: No data available.	· .		1	· .		·			
Danger of explosion: No data available.									
Explosion limits:					1		; • •	:	
Lower: No data available									
Upper: No data available	.1	'			'			1	'
Vapor pressure: N/A			1			1	·		•
Density at 20 °C (68 °F): 3.38 g/cm									
<b>3</b> , : · · ; · · · ; · · · ;			· · ·	: • •				.1	
(28.206 lbs/gal)								1	
Relative density No data available.				. '	1.1	1.1			
Vapor density N/A	`: :		1			1			·
Evaporation rate N/A									
Solubility in / Miscibility with	; • •		· · ·			· · ·	; • •		
Water at 16 °C (61 °F): 9.3 g/l		·			1			·	'
Partition coefficient (n-octanol/water): No	data ava	ailable.							
Viscosity:			1			1 			'
Dynamic: N/A									
Kinematic: N/A			1 I				; · · ·		
Other information No data available		'			1		.:	<b>1</b>	
	· .		·	· .		·			

#### **SECTION 10. STABILITY AND REACTIVITY**

Reactivity No data available Chemical stability Stable under recommended storage conditions.

Thermal decomposition	/ condi	tions to be	e avoide	ed: Dec	ompositio	n will no	occu	r if used a	nd store	ed
according to specificatio										
Possibility of hazardous		ons Reacts				gents		1 		
Conditions to avoid No o										
Incompatible materials:	Acids			1	1					
Oxidizing agents	·			1. i i	1.1 <sup>1</sup>		<b>1</b>		.1	1
Metals Hazardous decompositi					5	1		1	1	
Hydrogen chloride (HCl)	)			.:			.1		;••	
Metal oxide fume										
Potassium oxide	<b>'</b>			1			<b>`</b>	<sup>1</sup>	.1	1
				I INI			N	`		

Information on	toxicolo	gical ef	fects						,		
Acute toxicity:				. '			. '			. '	
Toxic if swallov	wed.	. * *	1	1		1 1	1		1	1	
The Registry o	f Toxic E	ffects o	of Chemic	al Subs	tances	(RTECS)	) contaiı	ns acut	e toxicity	data for	
components in	this pro	duct.		: • •			: * *	.:			.1
LD/LC50 value	es that ar	e relev	ant for cla	ssificati	on: No	data		1			·
Skin irritation c	or corrosi	on: Ca	uses skin	irritatior	٦.						
Eye irritation o	r corrosio	on: Cau	ises serio	us eye (	damag	е.	1	. * *	1	1	
Sensitization:											
May cause alle	ergy or as	sthma s	symptoms	or brea	athing c	lifficulties	if inhale	ed.			.:
May cause an	allergic	skin rea	action.	.1	1			1			·
Germ cell muta	agenicity	: The R	Registry of	Toxic E	ffects	of Chemic	cal Sub	stances	(RTECS	6) contai	ns
mutation data	for this s	ubstan	ce.							:	
Carcinogenicit	y: No cla	ssificat	ion data c	n carcir	nogenio	c propertie	es of thi	s mate	rial is ava	ailable fro	om

EPA, IARC, NTP, OSHA or ACGIH.

the

Reproductive toxicity: No effects known.

Specific target organ system toxicity - repeated exposure: No effects known.

Specific target organ system toxicity - single exposure: No effects known.

Aspiration hazard: No effects known.

Subacute to chronic toxicity: No effects known.

Additional toxicological information: To the best of our knowledge the acute and chronic toxicity of this

substance is not fully known.

		. '		1				
SECTION 12. ECOLOGIC		NFO	RMAT	TION	·	'		·
Toxicity Aquatic toxicity: No data available			1. 	1 	- 1 - 1 1	<b>`</b>	:	
Persistence and degradability No data av	vailable	е						
Bioaccumulative potential No data availa	ble	I	ı			ı		
Mobility in soil No data available		<u>'</u>	<sup>1</sup>	.1	1	<sup>1</sup>	.1	1.1
Additional ecological information:	· .		1			5		
Do not allow material to be released to the								
Do not allow undiluted product or large q	uantiti	es to re	each grou	undwate	r, water	courses	, or sewa	age
systems. Avoid transfer into the environment.	, ,		'	.:	·	'	.:	
Results of PBT and vPvB assessment	`:		1			1.1	1	
PBT: N/A								
vPvB: N/A	: • •	. 1	1 - 1 1	:**			111	
Other adverse effects No data available	.:	1			1	'	.1	1

#### **SECTION 13. DISPOSAL CONSIDERATIONS**

Waste treatment methods

Recommendation Consult official regulations to ensure proper disposal.

		1	,	. '		,				
Uncleaned packagi	ngs:		.:	·		.:	·		.:	·
Recommendation:										
		1.00			1. 1. 1.		1.00	1		
<b>SECTION 14</b>	. TRAN	NSPO	RTIN	IFOR	MAT	ON	.1	н н н	111	.1
UN-Number	·	'					1		E	1
DOT, IMDG, IATA	UN3288	1								
UN proper shipping			i			i			i	
DOT Toxic solid, in	organic, n.	o.s. (Pot	assium t	etrachl	oroplatin	ate(II))				
IMDG, IATA TOXIC										
Transport hazard c	lass(es)	'		1.1			1. i			1.1
DOT		5			1			1		
Class 6.1 Toxic sub										
Label 6.1		· · ·	: • •		н н н			1 I	:**	
Class 6.1 (T5) Toxi	c substanc	es								
Label 6.1									. '	
IMDG, IATA		1			1			1	1	
Class 6.1 Toxic sub	ostances.									
Label 6.1		· · ·	: • •		н н н	: • •		1 I	:	
Packing group	·			·			·			·
DOT, IMDG, IATA	Ш									
Environmental haza	ards: N/A	1			1.1		. * *	1.1	1	
Special precautions		-								
EMS Number: F-A,	S-A		111			111			111	.1
Transport in bulk a	ccording to	Annex I	l of MAF	RPOL73	8/78 and	the IBC	Code N	/A , , <sup>,</sup>	.:	·
Transport/Additiona	al informatio	on:								
DOT		1 1			1 			1		
Marine Pollutant (D	OT): No									
UN "Model Regulat										
6.1,	·			·			·			·

## SECTION 15. REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture GHS label elements, including precautionary statements Hazard pictograms GHS05 GHS06 GHS08 Signal word Danger Hazard statements H290 May be corrosive to metals. H301 Toxic if swallowed. H315 Causes skin irritation. 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 statementsP284 In case of inadequate ventilation wear respiratory protection. P261 Avoid breathing dust/fume/gas/mist/vapors/spray. P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P405 Store locked up. P501 Dispose of contents/container in accordance with local/regional/national/international regulations. National regulations All components of this product are listed in the U.S. Environmental Protection Agency Toxic Substances Control Act Chemical substance Inventory. All components of this product are listed on the Canadian Domestic Substances List (DSL). SARA Section 313 (specific toxic chemical listings) Substance is not listed. California Proposition 65

 $\Pi \Pi_{i,j}$ 

Prop 65 - Chemicals known to cause cancer Substance is not listed.

Prop 65 - Developmental toxicity Substance is not listed.

Prop 65 - Developmental toxicity, female Substance is not listed.

Prop 65 - Developmental toxicity, male Substance is not listed.

Information about limitation of use: For use only by technically qualified individuals.

Other regulations, limitations and prohibitive regulations

Substance of Very High Concern (SVHC) according to the REACH Regulations (EC) No. 1907/2006. Substance is not listed.

The conditions of restrictions according to Article 67 and Annex XVII of the Regulation (EC) No 1907/2006 (REACH) for the manufacturing, placing on the

market and use must be observed.

Substance is not listed.

Annex XIV of the REACH Regulations (requiring Authorisation for use) Substance is not listed.

Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

#### **SECTION 16. OTHER INFORMATION**

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH). The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product.