

SAFETY DATA SHEET

11			· · .			۰.,			Date	Accesse	ed: 25/08	3/2023
, i		.:	.:			.1	- 1 - 1 - 1	.1	Dat	e Revise	ed: 26/1′	1/2022
	:				:		1	;		1		
	CTION											
	uct Name					· · .		;**	11		111	· · .
	#: 7440-0					.1			.1		.1	.:
Relev	ant ident	ified us	ses of t	he subs	tance: S	Scienti	fic resea	rch and	l develo	opment	:	
Supp	lier detail	ls:										
Stanfo	ord Advan	iced Ma	terials									
E-mai	l: sales@	samate	rials.co	m								
Tel: (9	949) 407-8	8904				.;;						
Addre	ss: 23661	Birtche	er Dr., l	_ake Fore	est, CA s	92630	U.S.A.					
								:				

Classification of the substance or mixture Classification according to Regulation (EC) No 1272/2008 The substance is not classified as hazardous to health or the environment according to the CLP regulation. Classification according to Directive 67/548/EEC or Directive 1999/45/EC N/A Information concerning particular hazards for human and environment: No data available Hazards not otherwise classified. No data available

···. ··· ···				· · · .			· · ·			· · · ·	
Label elements			.:			.:	.1				
Labelling according to	Regula	tion (EC) No 127	2/2008							
N/A									:		
Hazard pictograms											
N/Å	· · · .						· · · .			11.	
Signal word			,÷						,÷		
N/A			. '	ı	:	. '			e.		:
Hazard statements		I	,	1 1	,	,		,	,		
N/A											
WHMIS classification											
Classification system						.:					
HMIS ratings (scale 0-	-4)		:	1	1	;		1			
(Hazardous Materials	Identific	cation Sy	stem)								
HEALTH	· · .			· · · · ·			· · .		111	· · .	
FIRE			;	:			1		.1		
REACTIVITY				1			,				
0			:	1		1		1			
0											
0	11						· · · .			· · .	
Health (acute effects)	= 0		.:			.:			1		
Flammability = 0		1		I			,	:	e ^r		
Other hazards											
Results of PBT and vF	^o vB ass	essment		I			,			,	
		. 11	.1		. **	1			.1		
N/A			:	1					:		
vPvB:											
N/A	· · .		1.1.1	· · .			· · .				

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substances		}	:		-	i.		-	e ^r		
CAS No. / Substance	Name:										
7440-06-4 Platinum	· · .		1 1 1 1				· · .			с. С.	
Identification number(EC number:	(s):		.1	.:				, , , ,		.1	
231-116-1			ť			ť		:	e ^r		
ing in an											
SECTION 4. F	IRST		MEAS	URE	S						. '
Description of first aid General information											
No special measures	required			···,			· · · .			· · ·	
Seek medical treatme	ent in cas	se of con	nplaints.	.:			.:				
In case of skin contac	:t:										
Generally the product											
In case of eye contac	t:		: **				· · .		111	· · · .	
Rinse opened eye for	several	minutes	under ru	nning	water. If sy	/mptom	ns persi	st, consı	ult a doct	or.	
If swallowed:											
If symptoms persist c	onsult do	octor.	:			:		}	e ^r		
Information for doctor											
Most important sympt	oms and	l effects,	both acu	ite and	l delayed		· · .		111	· · ·	
No data available											
Indication of any imm					ecial treatn				. '		
No data available			:	· · · ·	!	ť	1 1 - 1		: 		

SECTION 5. FIREFIGHTING MEASURES

Extinguishing media			.:	. :						.:	
Suitable extinguishing a	agents										
Special powder for meta	al fires.	Do not us	e wate	r.		;	1 1 1			н 1 - 1	
For safety reasons unsu	uitable e	extinguish	ing age	ents							
Water	11.		1 1 1	· · .		1 1 1	· · .			11	
Special hazards arising	from th	e substar	nce or n	nixture							. • •
If this product is involve	d in a fi	re, the fol	lowing	can be	released:						
Platinum oxide				1 1							
Advice for firefighters											
Protective equipment:											
No special measures re	quired.			.1						.1	
		1						1	1		1

SECTION 6. ACCIDENTAL RELEASE MEASURES

Not required.		
Environmental precautions:		
Do not allow material to be released to the environment without official permits.		
Do not allow product to enter drains, sewage systems, or other water courses.	· · .	
Do not allow material to penetrate the ground or soil.		
Methods and materials for containment and cleanup:		
Pick up mechanically.		
Prevention of secondary hazards:		
No special measures required.	· · .	
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.	•••	

	11. 1			· · .			· · · .			11.	
SECTION 7. HA	NDL	ING A	ND	STO	RAGE		.:		.1	.1	
Handling			: '	1 1 1		:			:	н 1 - 1	1
Precautions for safe har	ndling										
Keep container tightly s	ealed.		; • •	· · · .		;**			: • •	· · .	
Store in cool, dry place	in tightly	closed c	ontain	ers.			1		:	:	
Information about protect	ction ag	ainst expl	osions	and fi	es:						
No special measures re	quired.		:						:		
Conditions for safe stora	age, incl	uding an	y incor	npatibil	ities						
Requirements to be me	t by stor	erooms a	ind rec	eptacle	es:		· · .		111	11	
No special requirements	S. ;		.:	.:					.:	.1	
Information about storage	ge in on	e commo	n stora	age faci		1		;	:		:
Further information abo	ut storaç	ge conditi	ons:								
Keep container tightly se	ealed.		1			1			1	· · .	
Store in cool, dry condit	ions in v	vell-seale	dicont	ainers.					1	.1	
Specific end use(s) No data available	1 1 - 1		;	, , ,	:	;		ł	:'		
							· · .		111	· · .	
SECTION 8. EX PROTECTION					LS/PE						
Additional information a	bout des	sign of te	chnica	l syster	ns:						
No further data; see sec	tion 7.			· · .			· · .		: • •	· · .	
Control parameters							,				
Components with limit v					at the work						
7440-06-4 Platinum (10	0.0%)		:				н 1 - 1		:		
PEL (USA) Long-term v				··.		:	•••			··.	
soluble salts, as Pt											

···.	· · · · · · · · · · · · · · · · · · ·		· · ·	1.1.1		· · .			· · · ·	
REL (USA) Long-term	/alue: 1* 0.002	** mg/m	.:		.:			.:		
3										
*Metal **soluble salts, a	as Pt									
TLV (USA) Long-term v										
3	···.		· · .		1			i i	· · · .	
*metal **soluble salts, a	as Pt		. :		.:	.:		.:		
EL (Canada) Long-term 3	n value: 1* 0.00)2** mg/m		1	:ť		:		1 1 - 1	8 8 8
*metal;**soluble salts (a	as Pt): S									
EV (Canada) Long-tern	n value: 1* 0.00)2** mg/m	1							
3.					.:			.:		
*metal;**water-soluble of	compounds (as	s Pt)		-				:		
Additional information:										
No data		: • •	•••		111			111	· · · .	
Exposure controls		1	1			1				
Personal protective equ	lipment	.:								
Follow typical protective	e and hygienic	practices	for ha	ndling ch	emicals.	н 1 - 1		1		
Maintain an ergonomica		-								
Breathing equipment:	···.		· · .			11			· · .	
Not required.	.: 	.1	.:		.:	.1		.:		
Protection of hands:										
Not required.										
Penetration time of glov										
No data available	···.	t	· · ,		1			i i	· · · .	
Eye protection:		.:	.1		.÷	.1				
Safety glasses Body protection:	:	:1	, , ,	1	;		:	:ť		1
Protective work clothing]. 	; • •								
	di ser	.:	.1		.1	.1		.4		

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Information on ba	sic phys	sical ar	nd chemica	alprop	erties	-	:			1		
Appearance:												
Form: Solid in var	ious for	ms					; • •	· · · .		: • •	· · .	,
Color: Silvery-whi	te	.:		.:	.:		.:	.:		.:		
Odor: Odorless												
Odor threshold: N	lo data a	availab	le.									
pH: N/A												
Melting point/Melt	ing rang	ge: 176	8.4 °C (32	215 °F)				11.			· · .	'
Boiling point/Boilin	ng rang	e: 3825	5 °C (6917	ζ _, °¦F)						.:	1	,
Sublimation temp	erature								1			
Flammability (soli	d, gas)			1		:				:		
No data available												
Ignition temperatu												
Autoignition: No d	lata ava	ilable.		1						.1	.:	,
Danger of explosi	on: Pro	duct do	bes not pre	esent a	n explo	sion haza	rd.			1		
Explosion limits:												
Lower: No data av	vailable	• • .		, , , , ,	•••			· · .		: **	· · .	,
Upper: No data av	vailable											
Vapor pressure: N	N/A											'
Density at 20 °C (68 °F):	21.45 (g/cm	1			1			al a	: .	
3												
(179 lbs/gal)	: • •	· · .			· · .		; • •	· · .		: ' '	· · .	,
Relative density												
No data available												
Vapor density	:									÷1		
N/A												
Evaporation rate		· · ·			· · ,			· · .			· · .	,
N/A	.:									.:		,

	· · ·										
Solubility in Water (H				.:		.:			.:	.1	. • •
2											
O): No data available											
Partition coefficient (n-o	ctanol/	/water): No	o data a	availab	le.						
Viscosity:	· · .		1							· · · .	
Dynamic: N/A									.1		
Kinematic: N/A Other information		÷	e ^r		:	:'		:	:		:
No data available	··.			· · ·		: * *	· · .			··.	
la de la	.:		.:			_:			į:	.:	
SECTION 10. S											
Reactivity			:			1		:			
No data available	· · .		1 1 1 1	· · .			· · .		; · ·		
Chemical stability Stable under recommen	ided st	torage con	ditions	, i		.:	.:	, ' '	.:	.:	
Thermal decomposition	/ cond	litions to b	e avoic	led:				-			
Decomposition will not c	occur i	f used and	l storec	accor	ding to sp	pecificati	ions.				
Possibility of hazardous	reacti	ons		1 I 1		: * *	· · · .			· · · .	
No dangerous reactions Conditions to avoid	know	n	1	.:		.:	.1		.1	.:	
No data available			:		1	1	, , ,		e ^r		
Incompatible materials:											
No data available	· · .			· · · ,			· · · .			11.	
Hazardous decomposition	oņ: pro	ducts:	.1	_ : _ :		.:			.÷		

SECTION 11. TOXICOLOGICAL INFORMATION

Information on toxicological effects

Acute toxicity:

The Registry of Toxic Effects of Chemical Substances (RTECS) contains acute toxicity data for this substance. LD/LC50 values that are relevant for classification: No data Skin irritation or corrosion: Generally the product does not irritate the skin. Eye irritation or corrosion: No irritant effect.Sensitization: No sensitizing effects known. Germ cell mutagenicity: No effects known. Carcinogenicity: No classification data on carcinogenic properties of this material is available from the EPA, IARC, NTP, OSHA or ACGIH. The Registry of Toxic Effects of Chemical Substances (RTECS) contains tumorigenic and/or carcinogenic and/or neoplastic data for this substance. 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: The Registry of Toxic Effects of Chemical Substances (RTECS) contains multiple dose toxicity data for this substance. Additional toxicological information:

To the best of our knowledge the acute and chronic toxicity of this substance is not fully known.

		1.			· · ·		1 1 1				11.	
SECTION 1	2. EC	OL	OGIC		NFO	RMAT	ΓΙΟΝ		. * *	.1	j.	
Toxicity		,	:	:		:			1	÷		
Aquatic toxicity:												
No data available		'.			· · · .		111	· · .		111	÷.,	
Persistence and d	egradak	oility		.1						.1		
No data available Bioaccumulative p	otential	,		1	1 1 1				1	e ^r	1.	
No data available Mobility in soil	···· ,	۰.		· · · ·	· · .		1 1 1 1	· · .		1 1	11. 11.	
No data available	.: .			.1			.1			1	, i	
Additional ecologic	cal infor	matic	on:							÷		
Do not allow mate	rial to b	e rele	eased to t									
Do not allow undil	uted pro	duct	or large o	quantiti	es to re	each grou	undwater	, water	courses	, or sewa	age	
systems.												
Avoid transfer into	the env	/ironr	nent.	.1							.1	
Results of PBT an	d [°] vPvB	asse	ssment	;			:			:		
PBT:												
N/A		· .			· · ,		111	· · .		111	· · · .	
vPvB: N/A	.: .			.:	. 1	, i i i			, i i i		.1	
Other adverse effe	ects		-	:	, , ,	:	÷.		:	÷		
No data available												

SECTION 13. DISPOSAL CONSIDERATIONS

Waste treatment methods RecommendationConsult official regulations to ensure proper disposal.

Uncleaned packagings:

Recommendation:

Disposal must be made ac	cording to c	official re	gulatior	ıs.	.1		. **	.1	.1	
				1			1			
SECTION 14. TR	ANSPO	RT IN	IFOR	MAT	ION					
UN-Number			11. 1			11			··.	
DOT, ADN, IMDG, IATA		.:			.)÷			1		
N/A UN proper shipping name	. :	ť	н 1 — 1		:		:	;		
DOT, ADN, IMDG, IATA						· · .				
N/A										
Transport hazard class(es)		.:	.1							. '
DOT, ADR, ADN, IMDG, IA	ATA	:								
Class										
N/A			· · .		111	· · .		111	· · .	
Packing group DOT, IMDG, IATA		.1	.1		.1	.:		.1	.:	
N/A		:	1		:		:	÷		
Environmental hazards: N/	A									
Special precautions for use	er		· · ·			· · .			· · .	
N/A										
Transport in bulk according										
N/A		1	1 1 1		:		:	÷		
Transport/Additional inform										
Marine Pollutant (DOT): No	, D	: • •				· · ·			· · · .	

SECTION 15. REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture National regulations

All components of this product are listed in the U.S. Environmental Protection Agency Toxic

· · ·					'				
Substances Control Act Chemical substa	nce Inv	entory.		.:	.:		.:		
All components of this product are listed of	on the C	Canadia	an Domes	tic Sub	stances	s List (DSL	.).		
SARA Section 313 (specific toxic chemica	al listing	js)							
Substance is not listed.									
California Proposition 65		· · ·			· · .			· · .	
Prop 65 - Chemicals known to cause can	cer			.1			1		
Substance is not listed.					,				
Prop 65 - Developmental toxicity			1		1 1	r.	,		
Substance is not listed.									
Prop 65 - Developmental toxicity, female									
Substance is not listed.		1							
Prop 65 - Developmental toxicity, male	:			:					
Substance is not listed.									
Information about limitation of use:		· · .			· · .			· · .	
For use only by technically qualified indiv	iduals.								
Other regulations, limitations and prohibit	ive regu	ulations		.'	.'			.'	
Substance of Very High Concern (SVHC)) accord	ling to t	he REAC	HRegu	llations	(EC) No.	1907/2	006.	
Substance is not listed. The conditions of	restricti	ons aco	cording to	Article	67 and	Annex X\	/II of th	е	
Regulation (EC) No					··		: * *	··	,
1907/2006 (REACH) for the manufacturin	• •	-							
Substance is not listed.				,	,			,	
Annex XIV of the REACH Regulations (re	equiring	Author	isation for	use)					
Substance is not listed.									
REACH - Pre-registered substances		С.,			· · .		111	··.	
Substance is listed.	.:			.:	.:		.1	.:	
Chemical safety assessment:									
A Chemical Safety Assessment has not b	been ca	rried ou	ıt.		1 1 1				

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.