

SAFETY DATA SHEET

	.1	1.1.1		.:			.:		Date	Accesse	ed: 25/08	3/2023
`: `:		1 - 1 1	1	1 I			1 I 1		Dat	e Revise	ed: 21/11	/2022
· · ·	1 - 1 1	1. 1.			1. 1.			1			1	
SEC		I 1. ID	ENT	IFICA	TION							
	uct Nam			,: ck			.:	111		.:	:**	111
		-			н н 1	`;	1 I 1	н н н				1
Relev	ant iden	ntified us	ses of t	he subst	ance: S	Scienti	fic resea	rch and	develo	opment	÷.,	
Supp	lier deta	ils:										
	ord Adva I: sales@											
Tel: (9	949) 407	-8904		н н н			1 - 1 1		`;			· .
Addre	ss: 2366	1 Birtch	er Dr., I	_ake Fore	est, CA S	92630	J.S.A.			н н Н	·	
SEC		I 2. H	AZAI	RDS II	DENT	IFIC		N		.:	;••	
Class	ification o	of the su	bstance	e or mixtu	re		1 - 1 1	1 - 1 1		1 - 1 1		1
Class	ification a	accordin	g to Re	gulation (EC) No	1272/2	2008					
The s	ubstance	e is not c	lassifie	d as haza	irdous te	o healtl	n or the e	nvironm	ent acc	ording to	the CLF	2
regula	ition.	111		.:	: · ·	. • •	;	111				
Class	ification a			ective 67/								

Information concerning particular hazards for human and environment:

No data available

N/A

Hazards not otherwise classified :

No data available

		. '				1.1.1					
Label elements	`;										
Labelling according to I	Regula	tion (EC) No 127	2/2008		1			1		
N/A		,	· .	1	,	· .	,			1	
Hazard pictograms					.1			.:	:		.:
Signal word	`: :		н н н			1 - 1 1	`: `:	1 - 1 1		· .	
N/A Hazard statements		1 - 1 1	Ч.,	1 1 1	: *	Ч.,			14. 14.	· · ·	
N/A		.:						.:			.:
WHMIS classificationN	ot cont	rolled									
Classification system			1	1		1				1	
HMIS ratings (scale 0-4	4) •	н н н									
(Hazardous Materials I	dentific	ation Sy	stem)								
HEALTH				, i i 1				.:	111		.:
FIRE REACTIVITY	1	к. к к	н н Н	1		1 - 1 1	`: 			1	
0° 1° 1° 1° 1° 1° 1° 1° 1° 1° 1° 1° 1° 1°	, , ,		1.			1.	, , ,		÷.,		
0			111	. * *	.1	111		.:			.:
Health (acute effects) = Flammability = 0	= 0,	1 - 1 1		1	1 1 1		1			1	
T Tryslear Tazara – 0		1 1 1							1.		
Other hazards Results of PBT and vP	vP'aca	; anàmant	1 1 1 1					_:			.;
PBT:	1		ı	1		ı	1			1	
vPvB:	1 I		14. 1			14. 1	1 I		14. 14.		
		.:	1 1 1 1						;		.:
	1		1 I		1 1 1	1 I	1				

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substances				1 - 1 1	1 - 1 1				14	1 I 1	
CAS No. / Substance	Name:										
7440-06-4 Platinum			111		.: .:			.÷	111		
Identification number(s):										
EC number:											
231-116-1				1 1	н н Н	1. 1.					
in de la des											
SECTION 4. F	IRST		MEAS	URE	S	· · ·	·:	· · ·	н н 1	÷.	
Description of first aid	measur	20									
General information			` ,	1	r.	· .	1	i.		,	
No special measures	required				.e	; · ·			:		
Seek medical treatme	nt in cas	e of con	nplaints.	`: :	1 I		1	н н н			
In case of skin contac	t:		·			·			·		
Generally the product											
In case of eye contact	:	.:	: "		.:			.:	111		
Rinse opened eye for	several	minutes	under ru	nning	water. If sy	/mptom	ıs persi	st, consu	ilt a doct	or.	
If swallowed:							1				
If symptoms persist co	onsult do	ctor.	1. 1.	1 - 1 1	н н 1	÷.,			1. 1.		:
Information for doctor											
Most important symptom	oms and	effects,	both acu	ite and	l delayed	: • •			;**		
No data available							1			1	
Indication of any imme										1	
No data available				1 - 1 1	1 I	1. 1.		н н Н	14	1 I 1	

SECTION 5. FIREFIGHTING MEASURES

		,			I			1			
Extinguishing media					1 - 1 1	· · ·		1 I		· .	
Suitable extinguishing ag	gents										
Special powder for meta	l fires.	Do not use	e water	-					Т.		
For safety reasons unsui Water		•	0 0				- 1 - 1 		1 1 1 1		.:
Special hazards arising f	rom th	e substan	ce or m	ixture	· · ·			1 - 1 1		`:	
If this product is involved	l in a fi	re, the follo	owing c	an be r	eleased:						
Platinum oxide	I	r	1	ı	1	1	,	i.	1		,
Advice for firefighters Protective equipment:			1 1 1 1			1 1 1 1		.:			.:
No special measures rec	quired.	н н н	1 I	`: 	н н н			1 - 1 - 1		1	

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equ									
Not required.				1					
Environmental precautions:		1 1	н н Н	1.		н н Н	14		
Do not allow material to be released	to the env	vironme	nt withou	it official	permits	6.			
Do not allow product to enter drains,	sewage s	ystems	, or othe	r water c	ourses.	,÷	111		
Do not allow material to penetrate the	e ground o	or soil.							
Methods and materials for containme	ent and cle	eanup:							
Pick up mechanically.		1 I 1	н н Н	1.			14		
Prevention of secondary hazards:									
No special measures required.									
Reference to other sections		`;	· · ·					1	
See Section 7 for information on safe	e handling			1					
See Section 8 for information on personal	sonal prot	ection e			,			,	
See Section 13 for disposal informat	ion.		.:			3			

SECTION 7. HA		NG A	ND S	STO	RAGE		1	н н н		1	
Handling			۰.	1 I 1	н — н н	1. 1.	· · ·	н н н	1. 1.		
Precautions for safe ha	ndling										
Keep container tightly s	ealed.		; • •						: • •		
Store in cool, dry place	in tightly	closed co	ontaine	ers.		1 1				·	
Information about prote	ction aga	inst explo	osions	and fir							
No special measures re	quired.			1 I 1	1 I				14		
Conditions for safe stor	-										
Requirements to be me	t by store	rooms a	nd rece	eptacle	es:				: ' '		. 1
No special requirement	S. '		· ·	`	н н н			н н н		· .	
Information about storage											
Not required.		1		ı	ı	· ,		н н н	1.		
Further information abo											
Keep container tightly s			1		.:	,		.'			. '
Store in cool, dry condit	ions in w	ell-sealed	d conta	ainers.	1 - 1 1	· · ·				1	
Specific end use(s)			·		1 - 1 1	· .			1. 1.		
No data available											
lan an											. 1
SECTION 8. EX	POSI		:ON		I S/PFI	RSO	ΝΔΙ			· .	
DDOTECTION											
PROTECTION			'.	1 1	н н Н	1.			14		
Additional information a		-		-							
No further data; see see	ction 7.								111	. * *	.1
Control parameters				·	1 - 1 1					· .	
Components with limit v	alues tha	at require	monit	oring a	t the workp	place:					
7440-06-4 Platinum (10	0.0%)		· , ,	1	1	· · ·					
PEL (USA) Long-term v		-									×
3			1			1					
soluble salts, as Pt				`: `:	1 - 1 1					`: 	

			1 1 1			1 1 1					
REL (USA) Long-term v	/alue: 1	* 0.002** r	mg/m	`:	1 - 1 1		· .			`:	
3											
*Metal **soluble salts, a	as Pt	1		1			1	н н н			
TLV (USA) Long-term v	alue: 1'	* 0.002** n	ng/m								
3		1	ł			1		. '			. '
*metal **soluble salts, a	is Pt	н н н	1 I 1			н н Н				1	
EL (Canada) Long-term 3	n value:	1* 0.002*'	* mg/m	1 1 1	1 - 1 1			1 - 1 1	14. 1		
*metal;**soluble salts (a	as Pt): S	3			.:				: • •		.:
EV (Canada) Long-term	ו value:	1* 0.002*	* mg/m								
3											
*metal;**water-soluble of	compou	nds (as Pl	t)	1 I 1		1.		н н н			
Additional information:											
No data			1 1 1 1			: · · ·			111		.:
Exposure controls	· .			· .			۰.			· .	
Personal protective equ	•		i.	i	,	ı	1			ł	
Follow typical protective	e and hy	/gienic pra	actices	for han	dling chen	nicals.					
Maintain an ergonomica		-	-								
Breathing equipment:	. * *				.:						. :
Not required.	· :	· · ·	н н н							`;	
Protection of hands:			1			1					
Not required.	,	i i						н н н			
Penetration time of glov No data available	ve mate	rial (in min	utes)		:						:
No data available		,		ı			,	·			
	`: :		н н н		н н н		1			`:	
Safety glasses			· .	1 I		1.			1. 1.		
Body protection:											
Protective work clothing].			1-1		1.1.1			1.1.1		.:
	` :		1 - 1 1	1	1 1 1	1 I	1	· · ·	1 - 1 1	1	
					1 1	1					

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical prop	oerties			1 I	н н н	1. 1.	1 - 1 - 1	
Appearance:								
Form: Solid in various forms						: ' '		. :
Color: Silvery-white	1	1 1		· .			·	,
Odor: Odorless								
Odor threshold: No data available.		1 1 1	1.					
pH: N/A								
Melting point/Melting range: 1768.4 °C (3215 °F)							. :
Boiling point/Boiling range: 3825 °C (6917 °F)		1 I	1 1				·	
Sublimation temperature / start: No data availab	le							
Flammability (solid, gas)			1.					
No data available.					1			
Ignition temperature: No data availableDecompo								
Autoignition: No data available.		1 I	1				1	
Danger of explosion: Product does not present a	an explo	osion haza	ard.			1.		
Explosion limits:								
Lower: No data available		.:						.:
Upper: No data available								
Vapor pressure: N/A			1					
Density at 20 °C (68 °F): 21.45 g/cm		1 I	1. 1.	1 - 1 1	н н н	1		
3								
(179 lbs/gal)						: • •		.:
Relative density	· ,	1 I	1 1	· .			· .	
Vapor density		н н н	14. 1			1.		
N/A								
Evaporation rate		.:						. :
N/A		н н н						,

						1.1.1		. '			
	`.	· · ·	н н н		· · ·		1			÷.	
2					1 1	•					
O): No data available			· .								,
Partition coefficient (n-c											
Viscosity:			·		. '	·		. '	·		
Dynamic: N/A		н н н			· · ·	· · ·	1			1	
Kinematic: N/A Other information	• •	1 - 1 1	14. 1		1 - 1 1	Ч.,	, , ,		14. 14.		
No data available					.:	111		.1	: • •		.:
					1 1						
SECTION 10. S		BILITY) RE							
			,	I		1					
Reactivity											
Reactivity No data available		.) -	111		.:	;••		.:	;**		.1
No data available Chemical stability									;		.:
No data available Chemical stability									: · · 		
No data available Chemical stability	nded st	orage co	nditions	s.	· · ·	· · ·	`:			:	.:
No data available Chemical stability Stable under recommen	nded st n / cond	orage co litions to b	nditions pe avoic	s. ded:						:	.: · : · ·
No data available Chemical stability Stable under recommen Thermal decomposition	nded st n / cond occur if	torage con litions to b f used and	nditions pe avoic d storec	s. ded: d accore		pecificati	ons.	· · ·			
No data available Chemical stability Stable under recommen Thermal decomposition Decomposition will not Possibility of hazardous	nded st n / cond occur if s reactio	orage con litions to k f used and ons	nditions be avoid d stored	s. ded: d accore	ding to sp	pecificati	ons.				
No data available Chemical stability Stable under recommen Thermal decomposition Decomposition will not Possibility of hazardous No dangerous reactions Conditions to avoid	nded st n / cond occur if s reactions s known	torage con litions to k f used and ons n	nditions be avoid d stored	s. ded: d accord	ding to sp	pecificati	ons.				
No data available Chemical stability Stable under recommen Thermal decomposition Decomposition will not Possibility of hazardous No dangerous reactions	nded st n / cond occur if s reactions s known	torage con litions to k f used and ons n	nditions be avoid d stored	s. ded: d accord	ding to sp	pecificati	ons.				
No data available Chemical stability Stable under recommen Thermal decomposition Decomposition will not Possibility of hazardous No dangerous reactions Conditions to avoid No data available Incompatible materials:	nded st n / cond occur if s reactions s known	orage con litions to k f used and ons n	nditions be avoid d stored	s. ded: d accord	ding to sp	pecificati	ons.				
No data available Chemical stability Stable under recommen Thermal decomposition Decomposition will not Possibility of hazardous No dangerous reactions Conditions to avoid No data available	nded st n / cond occur if s reactions s known	orage con litions to k f used and ons n	nditions be avoid d stored	s. ded: d accord	ding to sp	pecificati	ons.				
No data available Chemical stability Stable under recommen Thermal decomposition Decomposition will not Possibility of hazardous No dangerous reactions Conditions to avoid No data available Incompatible materials:	nded st n / cond occur if s reactions s known	torage con litions to k f used and ons n	nditions be avoid d stored	s. ded: d accord	ding to sp	pecificati	ons.				:

SECTION 11. TOXICOLOGICAL INFORMATION

Information on toxicological effects

Acute toxicity:

The Registry of Toxic E										
substance.		1			1	1.				
LD/LC50 values that are										
No data			1							
Skin irritation or corrosid	on:	1 I	1 - 1 1		н н н				н н Н	
Generally the product d	oes not	irritate the	e skin.			· .				
Eye irritation or corrosio	on:	I		,		· ,		,		
No irritant effect.Sensitiz	zation:				:			.:		
No sensitizing effects kr	nown.	1								
Germ cell mutagenicity:		1 I	н н н	`: :	1 I			н н н		
No effects known.		1 1	·		н н 1	·				
Carcinogenicity:										
No classification data or	n carcin	ogenic pro	operties	s of this	material i	savaila	able fro	m the EPA	A, IARC	3
NTP, OSHA or ACGIH.										
The Registry of Toxic E	ffects o									
carcinogenic and/or nec	oplastic	data for th	nis subs	stance.	н н н	14. 14.	· · ·	н н н	1. 1.	· · ·
Reproductive toxicity:										
No effects known.						: · ·				
Specific target organ sy	stem to	oxicity - rep	eated e	exposu	re:		· .			· .
No effects known.										
Specific target organ sy	stem to	oxicity - sin	gle exp	osure:	1 - 1 1	14				
No effects known.										
Aspiration hazard:			1 1 1							
No effects known.		1 I	· · ·		1 I			н н н		· .
Subacute to chronic tox	icity:									
The Registry of Toxic E						1				
data for this substance.								1		
Additional toxicological	informa		,			,				
To the best of our know	ledge tl	ne acute a	nd chro	onic tox	icity of this	s substa	ance is	not fully k	nown.	1

SECTION	12. E	ECOI	OGIC		NFO	RMA	ΓΙΟΝ	1	•	11	1	
Toxicity				14. 14.		1 - 1 1	1.		1 I	1. 1.		
Aquatic toxicity:												
No data available	9				1							
Persistence and	degrad	dability	· · ·				н н н				1	
No data available Bioaccumulative	1.		1 I	1.		1 1 1				1. 1.		
No data available Mobility in soil) ; · ·			; · · ·	, 1.1 1	.1		, i i 1	.1			
No data available	9		н н н	· · ·			н н н	1				
Additional ecolog	jical in	formati	on:	۰.	1 1		1.					
Do not allow mat	erial to	be rel	eased to t	the env	ironme	nt withou	ut official	permit	6.			
Do not allow und	iluted	produc	t or large	quantiti	es to re	each gro	undwate	r, water	courses	, or sewa	age	
systems.												
Avoid transfer int	o the e	environ	ment.		1	,	,	1			:	
Results of PBT a	nd vP	vB ass	essment	1.		н н н						
PBT:												
N/A	: • •			: * *						111		
vPvB: N/A		1	· · ·		1			1			1	
Other adverse ef	fects	1 1	н н н	1. 1.	1 1		1.		н н н	14. 14.	1 1	
No data available	Э											

SECTION 13. DISPOSAL CONSIDERATIONS

Waste treatment methods RecommendationConsult official regulations to ensure proper disposal. Uncleaned packagings:

Recommendation:

						'				,
Disposal must be mad	e accor	ding to c	official re	gulatior	IS.	1 - 1 1		1 I		
	1 - 1 1	1 I			1 - 1 1			1 - 1 1		
SECTION 14.		NSPO	RT IN	FOR	MAT	ION				
UN-Number	.**	.1				111	11	.1	111	
DOT, ADN, IMDG, IAT	A				· · ·					
N/A UN proper shipping na		н н н	Ч., С.,			1.		 	1. 1.	
DOT, ADN, IMDG, IAT N/A	A	- - -	1 1 1 1			1 1 1 1				 .:
Transport hazard class	s(es)	1 I	н н н		н н н			1 - 1 1		
Dot, Adr, Adn, Imd	G, IATA	A j	1. 1.							
Class										
N/A						111			111	
Packing group DOT, IMDG, IATA	` :	 	н н н		· ·	1 - 1 1		 	н н н	
N/A		н н Н	1.	· · ·		1. 1.	· · ·	1 - 1 1		
Environmental hazards	s: N/A									
Special precautions fo	r user		1.1.1					.:	111	
N/A										
Transport in bulk acco	rding to	Annex I	l of MAR	POL73	/78 and	the IBC (Code			
N/A		н н Н	1.			14		н н Н		
Transport/Additional in										
Marine Pollutant (DOT): No		: • •			: • •		.1	111	

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 substan	ice In	ventor	/- •						
All components of this product are listed o	n the	Canac				-	-		
SARA Section 313 (specific toxic chemica	l listin	igs)							
Substance is not listed.									
California Proposition 65									
Prop 65 - Chemicals known to cause canc	cer		н н н			· · ·			
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.				н н н		· · ·		`: :	
Prop 65 - Developmental toxicity, male	·								
Substance is not listed.									
Information about limitation of use:									
For use only by technically qualified individ	duals.								
Other regulations, limitations and prohibitiv	ve reg	gulatior	าร						
Substance of Very High Concern (SVHC)	accor	ding to	the REA	ACH Reg	gulation	is (EC) N	lo. 1907/	2006.	
Substance is not listed.The conditions of r	estric	tions a	ccording	to Articl	e 67 ar	nd Annex	XVII of	the	
Regulation (EC) No				111					
1907/2006 (REACH) for the manufacturing		<u> </u>							
Substance is not listed.					1		,		
Annex XIV of the REACH Regulations (red	quirin	g Auth	orisation	for use)			14		
Substance is not listed.									
REACH - Pre-registered substances				111		, t	111		
Substance is listed.		· .							
Chemical safety assessment:		,		,	ı			ı	
A Chemical Safety Assessment has not be	een ca	arried o	out.		1 I 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.