

SAFETY DATA SHEET

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				1			1		Dat	e Revised	d: 02/11	/2022
							1			;	1	
SEC		I 1. IC	ENT	IFICA								
	uct Name	e: Pallac	dium Bla	ack						11		
CAS #	#: 7440-0	05-3	'			¹	`: :		¹	1		
Relev	ant iden	tified u	ses of t	he subs	tance: S	Scienti	fic resea	rch and	develo	opment		
Supp	lier deta	ils:										
	ord Adva I: sales@			· · · .	111	1 - 1 1	· · .	111	· · ·	··.	111	
Tel: (9	949) 407-	-8904				'	1				. :	
Addre	ss: 2366	1 Birtch	er Dr., I	_ake For	est, CA 🤅	92630	J.S.A.					
'						1.1						
SEC		I 2. H		RDS I	DENI	TIFIC	ΑΤΙΟ	N	• •		111	
Classi	ification o	of the su	bstance	e or mixt	ure	'	`:					'
Classi	ification a	accordin	g to Re	gulation	(EC) _, No	1272/2	2008	;		:		
The s	ubstance	e is not c	lassifie	d as haz	ardous to	o healtl	n or the e	environm	ent acc	ording to	the CLF	2

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

					· · ·	1			1		· · · .
Label elements		· .		¹							
Labelling according to R	Regulat	tion (EC) l	No 1272	2/2008							
N/A		1			1	:			:		1
Hazard pictograms											
N/Å	,	· · ·	,	,	· · ·					1	· · · .
Signal word	'						· · · [*]				
N/A											
Hazard statements											
N/A		· · .	; • •		···,						··.
WHMIS classificationNo											
Classification system	'						'				
HMIS ratings (scale 0-4))			¹	-		'			'	
(Hazardous Materials Id	entific	ation Syst	em)								
HEALTH	· ·	· · ·			· · .		· ·	· · .	: • •		· · .
FIRE				'			'				
REACTIVITY											
0	'			' 			'			'	8
0											
					· · .						· · · .
Health (acute effects) =	0,,,,			¹			'			'	
Flammability = 0					;	;	'		:		
T flysical flazaru – 0		,									
Other hazards											
Results of PBT and vPv	B asse	essment		,							
PBT: N/A	'	1	, , ,			1	¹			'	
vPvB: N/A		1		¹							

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substances

		11.						· · ·			
CAS No. / Substance Na	ame:						¹	4			
7440-05-3 Palladium											
Identification number(s):								1		¹	
EC number: 231-115-6											
									,		
et a sub-											1
SECTION 4. FIF	RST		EAS								
Description of first aid m	easure	es		1.1			1.1	:		1.1	:
General information				1 1	··.						
No special measures re								,			
If inhaled:	'			¹				1			1
Seek medical treatment	in case	e of comp	laints.	· . '							
In case of skin contact:											
Generally the product do	pes not	irritate th	ie skin.	1 1	· · .			· · .			
In case of eye contact:											
Rinse opened eye for se		1	1 1		water. If sy						
If swallowed:	'			¹	1		¹	÷			
If symptoms persist cons	sult do	ctor.									
Information for doctor	· ·				· · · .	; • •		· · .	:		
Most important symptom	ns and	effects, b	oth acu	ute and	delayed	,		· .			· .
No data available											
Indication of any immed	iate me	edical atte	ention a	ind spe	cial treatn	nent ne	eded			¹	
No data available											
		1997 - S. 1997 -	111			111					

SECTION 5. FIREFIGHTING MEASURES

Extinguishing media

Suitable extinguishing agents

Special powder for metal fires. Do not use water.For safety reasons unsuitable extinguishing agents

Water

			· · .			· · ·			· · · .
Special hazards arising from the sub	stance or i	mixture) , ;		'				
If this product is involved in a fire, the	-								
Metal oxide fume		¹			'			¹	
Advice for firefighters									
Protective equipment:		1 1	· · · .			11.			· · .
No special measures required.		¹	1			1		1.1	1
··· · · · · · · ·							:	¹	
SECTION 6. ACCIDENT		LEA	_		-				
Personal precautions, protective equ	inment an	d emer		rocedures		11			••••
	•								
Not required.									
Environmental precautions:		1. C			'				:
Do not allow material to be released	to the envi	ironme	nt witho	ut official	permite	S.			
Do not allow product to enter drains,	sewage s	ystems	, or othe	er water co	ourses.	· · · .			
Do not allow material to penetrate the	e ground c	or soil.							
Methods and materials for containme	ent and cle	anup:							
Pick up mechanically.	1	¹	1		'	1	1		
Prevention of secondary hazards:									
No special measures required.		1 I 1	· · .			11. 1			· · .
Reference to other sections		¹	· .			1			
See Section 7 for information on safe	e handling								
See Section 8 for information on pers	sonal prote	ection e	equipme	nt.	'			¹	

See Section 13 for disposal information.

SECTION 7. HANDLING AND STORAGE

Handling Precautions for safe handling Keep container tightly sealed. Store in cool, dry place in tightly closed containers.

Information about protection against explosions and fires:						
No special measures required.						
Conditions for safe storage, including any incompatibilities		'				
Requirements to be met by storerooms and receptacles: No special requirements.	;	•	··.			··.
Information about storage in one common storage facility:			· ;			
Do not store together with acids. Store away from oxidizing agents.	ł			:	*	:
Further information about storage conditions: Keep container tightly sealed.	:		··			•••,
Store in cool, dry conditions in well-sealed containers.					¹	1
Specific end use(s) No data available	;	'	:	:	'	:
	· · ·		· · · .			· · .

SECTION 8. EXPOSURE CONTROLS/PERSOI	NAL			1.1	1
PROTECTION			;	*	1
Additional information about design of technical systems:					
No further data; see section 7.Control parameters		· · .	: ' '		•••
Components with limit values that require monitoring at the workplace:					
None. Additional information: No data	'	-	1	'	8
Exposure controls Personal protective equipment		11. 1			•••
Follow typical protective and hygienic practices for handling chemicals.	¹	1			1
Maintain an ergonomically appropriate working environment.					:
Breathing equipment: Not required.			1		
Protection of hands: Not required.					
Penetration time of glove material (in minutes)					
No data available				¹	1

Eye p	rotection	: Safety	glasses	5					
Body	protectio	n: Prote	ctive wo						

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES Information on basic physical and chemical properties Appearance: Form: Solid in various forms Color: Silver grey Odor: Odorless Odor threshold: No data available. pH: N/A Melting point/Melting range: 1554.9 °C (2831 °F) Boiling point/Boiling range: 3167 °C (5733 °F) Sublimation temperature / start: No data available Flammability (solid, gas): No data available. Ignition temperature: No data available Decomposition temperature: No data available Autoignition: No data available. Danger of explosion: No data available. **Explosion limits:** Lower: No data available Upper: No data available Vapor pressure: N/A Density at 20 °C (68 °F): 12.02 g/cm 3 (100.307 lbs/gal) Relative density: No data available. Vapor density: N/A Evaporation rate: N/A

		· · ·						· · .			· · ·
Solubility in Water (H	'			'							
2											
O): Insoluble				1.1							
Partition coefficient (n-c											
Viscosity:		11.	ł	1		1		· · .	1		· · ,
Dynamic: N/A		1		'				1			1
Kinematic: N/A Other information			:	'		:		:	:		1
No data available	1 I 1	1 - 1 - 1	1 - 1 - 1 -	1 - 1 1	· · · .		1 - 1 1	· · .			۰۰,
SECTION 10. S	STAB		AND			/ITY				'	
ReactivityNo data avail	able										
Chemical stability		· · .	: • •	1 I 1		; • •		· · .	111		··.
Stable under recomme	nded st	orage cor	ditions	•							
Thermal decomposition	n / condi	tions to b	e avoid	led:				;			
Decomposition will not	occur if	used and	l stored	accore	ding to s	pecificati	ons.				
Possibility of hazardous	s reactio	ons									
Reacts with strong oxid	lizing ag	gents	: ' '	1 1	· · .			· · .			۰۰,
Conditions to avoid				1							
No data available											
Incompatible materials:				1							
Acids											
Oxidizing agents		···.		r I I	11.			11.			· · ,
Hazardous decomposit	ion proc	ducts:		'	`:			1			1
Metal oxide fume			:	'	}	1					:

SECTION 11. TOXICOLOGICAL INFORMATION

Information on toxicological effects

Acute toxicity: The Registry of Toxic Effects of toxicity	Chemic	cal Subst	ances (F	RTECS) contain	s acute	'
data for components in this product.	¹			1.1			
LD/LC50 values that are relevant for classificat	ion: No	data					
Skin irritation or corrosion: No irritant effect.		с.,			· · .		
Eye irritation or corrosion: May cause irritation	'						
Sensitization: No sensitizing effects known.							
Germ cell mutagenicity: No effects known.				1. C			
Carcinogenicity: No classification data on carci	nogeni	c propert	ies of thi	s matei	rial is ava	ailable fro	om
the management of the second second		· · · .			11	:**	1 - 1 1
EPA, IARC, NTP, OSHA or ACGIH.							
Reproductive toxicity: No effects known.							
Specific target organ system toxicity - repeated	l expos	ure: No e	effects kr	nown.			¹
Specific target organ system toxicity - single ex	posure	: No effe	cts know	/n.			
Aspiration hazard: No effects known.					11. 1		
Subacute to chronic toxicity: No effects known.	'	1		¹	1		
Additional toxicological information:							
To the best of our knowledge the acute and ch	ronic to	xicity of t	this subs	tance i	s not full	y known.	

SECTION 1	2. E	COL	OGIC		NFOF	RMATI	ON	'				
Toxicity Aquatic toxicity:	1	¹		:	'		;			:	*	
No data available	•		· · .			· · · .	: **		· · · .	: • •		,
Persistence and o	degrad	lability										
No data available	, , ,	¹	`:		¹			¹				
Bioaccumulative	potent	ial	1		¹			¹	-			
No data available	;											
Mobility in soil	: • •	1 I 1	· · ·	1 1 1 1	1 I 1		1 1 1 1	· · ·	· · · ·			
No data available) 1 1		· .							. :		

Additional ecological in	Iomiat		 		 			
Do not allow material to	be rel				•			
Avoid transfer into the	environ	iment.	· · '		'		'	
Results of PBT and vPv	vB ass	essment						
PBT: N/AvPvB: N/A			 	11.				
Other adverse effects	'		 · · ¹	1	 ¹	. :		1
No data available	'							

SECTION 13. DISPOSAL CONSIDERATIONS

Waste treatment methods			· · · ¹	1	 '			'	
Recommendation		}		:		1			
Consult official regulations to e	ensure p	roper dis	posal.						
Uncleaned packagings:	· · .		1 I 1	· · .	 	· · .	; • •		
Recommendation: Disposal must be made accor					 '	`:		'	

SECTION 14. TRANSPORT INFORMATION

UN-Number	· .		'	1					
DOT, ADN, IMDG, IATA N/A	1			1	:	'	:	:	
UN proper shipping name DOT, ADN, IMDG, IATA			1 I 1			, , ,		:	 ··.
N/A :		, , ,	'		1	'			 1
Transport hazard class(es) DOT, ADR, ADN, IMDG, IATA			¹	1	:	'	÷	÷	
Class N/A	· · ·	; • •	· · ·	··.	:		···.		 •••
Packing group	1			`: `	, , ,	'	`: 		

				1	,						
DOT, IMDG, IA	TA	'			'	· .			· .		
N/A											
Environmental	hazards	:'	-								
N/A											
Special precaut	tions for	user	111		1 1	11			11.	111	 ۰۰,
N/A	. :	'	1						1		 1
Transport in bu	lk accor	ding to	Annex I	I of MAR	RPOL73	3/78 and	the IBC	Code			
Transport in bu N/A	lk accor	ding to	Annex I	l of MAR	RPOL73	8/78 and	the IBC	Code	1		 1
N/A									'		:
									'		: ••.
N/A Transport/Addit	ional inf	ormati	on:	:		1 11	:		· ···		

SECTION 15. REGULATORY INFORMATION

Safaty, basith and any ironmental regulations/lagis	lation apositio fo	, the e	ubatana	o or mixt							
Safety, health and environmental regulations/legis					JIE						
regulations											
All components of this product are listed in the U.S	S. Environmenta	I Prote	ction Ag	gency Tox	ic -						
Substances Control Act Chemical substance Inver	ntory.										
All components of this product are listed on the Canadian Domestic Substances List (DSL).											
SARA Section 313 (specific toxic chemical listings	()		1.1	-							
Substance is not listed.											
California Proposition 65			н н н	· · .	; ' '						
Prop 65 - Chemicals known to cause cancerSubst	tance is not liste	d.,		1.							
Prop 65 - Developmental toxicity	i i	1 1									
Substance is not listed.											
Prop 65 - Developmental toxicity, female											
Substance is not listed.				ч.,							
Prop 65 - Developmental toxicity, male				· .							

Substance is not listed.		1		1								
Information about limitation												
For use only by technically o	qualified ind	ividuals.				'			'			
Other regulations, limitations and prohibitive regulations												
Substance of Very High Cor	ncern (SVH0	C) accor	ding to	the REA	CH Reg	julation	s (EC) N	o. 1907/2	2006.			
Substance is not listed.			¹			¹						
The conditions of restriction	s according	to Articl	le 67 a	nd Annex	XVII of	the Re	gulation	(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.			'	1			1					
REACH - Pre-registered sub	ostançes		'									
Substance is listed.												
Chemical safety assessmen	it:			· · .	; • •	· · ·	· · .					
A Chemical Safety Assessm	nent has not	been c	arried	out.								
							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.