

SAFETY DATA SHEET

Version 3.0 Revision Date 21/May/2024

samaterials.com

								21/May/	2024
1. PF	RODUCT AND COMPANY IDENTIF	ICATION			1. J.				
1.1Pi	roduct identifiers								
	Product name N Brand S	liobium Target	1 - 1 1	1				н н н	
	CAS-No. : 7	440-03-1							
1.2	Relevant identified uses of the su	bstance or mixture and	d uses adv	/ised agai	nst				
	Identified uses : La	aboratory chemicals, Ma	nufacture	of substand	ces				
1.3	Details of the supplier of the safet	ty data sheet		111	1		: • •	1	
	2	tanford Advanced Mate 3661 Birtcher Dr. Lake orest, CA 92630 USA				· ·	1	н н Н	
'	•	1 (949) 407-8904 1 (949) 812-6690		ť	'		ť	*	, et
1.4	Emergency telephone number								
·	Emergency Phone # : +	1 (949) 407-8904	1		1	-	111	1	
2. HA	ZARDS IDENTIFICATION								
2.1	Classification of the substance or	mixture							
	Not a hazardous substance or mix	dure.							
2.2	GHS Label elements, including pr	ecautionary statement	S	1				'	¹
	Not a hazardous substance or mix	ture.							
2.3	Hazards not otherwise classified	(HNOC) or not covered	by GHS -	none					
3. CC	OMPOSITION/INFORMATION ON II	NGREDIENTS	1		·	1		·	
3.1	Substances Synonyms : C	olumbium							
*				a' i	'		e ^r		, et
	No components need to be disclos	sed according to the ap	plicable re	egulations.					
4. FII	RST AID MEASURES								
4.1	Description of first aid measures								
	If inhaled If breathed in, move person into fr	esh air. If not breathing						н н н	
'	In case of skin contact Wash off with soap and plenty of v	vater.			¹		t.		
								Page 1	of 7

	 KPOSURE CONTROLS/PERSONAL TECTION 8.1 Control parameters Components with workplace control parameters Contains no substances with occupational exposure limit values. Exposure controls Appropriate engineering controls General industrial hygiene practice. 						
3. EX PRO	TECTION 8.1 Control parameters Components with workplace control parameters Contains no substances with occupational exposure limit values.			н н н			
в. Е У	TECTION 8.1 Control parameters						
	(POSURE CONTROLS/PERSONAL			1			
.3							
	Specific end use(s) Apart from the uses mentioned in section 1.2 no other specific uses	are stipul	ated		:		
.2	Conditions for safe storage, including any incompatibilities Keep container tightly closed in a dry and well-ventilated place. Storage class (TRGS 510): Non Combustible Solids						
.1	Precautions for safe handling Further processing of solid materials may result in the formation of combustible dust formation should be taken into consideration befor appropriate exhaust ventilation at places where dust is formed. For precautions see section 2.2.					le i	
	ANDLING AND STORAGE						
.4	Reference to other sections For disposal see section 13.					'	
.3	Methods and materials for containment and cleaning up Sweep up and shovel. Keep in suitable, closed containers for dispos	sal.			4		
2	Environmental precautions No special environmental precautions required.	111	'	-	111	1	
.1	Personal precautions, protective equipment and emergency pro Avoid dust formation. Avoid breathing vapours, mist or gas. For personal protection see section 8.	ocedures					
A	CCIDENTAL RELEASE MEASURES						
4	Further information No data available	1					
3	Advice for firefighters Wear self-contained breathing apparatus for firefighting if necessary	; · · · /.	1 1		:**	1	
2	Special hazards arising from the substance or mixture niobium oxides						
	Suitable extinguishing media Use water spray, alcohol-resistant foam, dry chemical or carbon dio	xide.	'		÷	'	
1 E	extinguishing media						
FII	REFIGHTING MEASURES				1. 1.		
3	Indication of any immediate medical attention and special treat					1.1	
2	Most important symptoms and effects, both acute and delayed The most important known symptoms and effects are described in tl	he labellin	iq (see s	section 2.2	?) and/or in	section	11
	If swallowed Never give anything by mouth to an unconscious person. Rinse mot	uth with w	ater.		÷.		
	In case of eye contact Flush eyes with water as a precaution.				1		

Personal protective equipment

Eye/face protection

Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Full contact Material: Nitrile rubber Minimum layer thickness: 0.11 mm Break through time: 480 min Material tested:Dermatril® (KCL 740 / Aldrich Z677272, Size M)

Splash contact Material: Nitrile rubber Minimum layer thickness: 0.11 mm Break through time: 480 min Material tested:Dermatril® (KCL 740 / Aldrich Z677272, Size M)

data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail sales@kcl.de, test method: EN374

If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

Body Protection

Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place., The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection

Respiratory protection is not required. Where protection from nuisance levels of dusts are desired, use type N95 (US) or type P1 (EN 143) dust masks. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure

No special environmental precautions required.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

a)	Appearance	Form: Disc
		Colour: grey
b)	Odour	No data available
c)	Odour Threshold	No data available
d)	рН	No data available
e)	Melting point/freezing point	Melting point/range: 2,468 °C (4,474 °F) - lit.
f)	Initial boiling point and boiling range	4,742 °C (8,568 °F) - lit.
g)	Flash point	No data available
h)	Evaporation rate	No data available
i)	Flammability (solid, gas)	No data available
j)	Upper/lower flammability or	No data available

				1			1			1
	explosive limits				1		· · ·	1		
	k) Vapour pressure	No data available								
	I) Vapour density	No data available	'	(1,1)	:					¹
	m) Relative density	8.57 g/cm3 at 25 °	°C (77 °	F)						
	n) Water solubility	insoluble								
1	o) Partition coefficient: n- octanol/water	No data available	1.1		111	1		111	1 1	
	p) Auto-ignition temperature	The substance or	mixture	is not clas	sified as p	yrophorid	C.	1		
	q) Decomposition temperature	No data available							'	
	r) Viscosity	No data available								
	s) Explosive properties	No data available								
·	t) Oxidizing properties	No data available	·	:		·			·	:
9.2	Other safety information No data available						·			
10. ST	ABILITY AND REACTIVITY	· · · ·								
10.1	Reactivity No data available								'	
10.2	Chemical stability Stable under recommended s	torage conditions								
10.3	Possibility of hazardous read	-								
	No data available					· · ·			· · ·	
10.4	Conditions to avoid No data available	11 - B								
10.5	Incompatible materials Strong bases, Strong oxidizin	g agents, Halogens	S							
10.6	Hazardous decomposition pr Other decomposition products In the event of fire: see section	s - No data availabl	e							
11. TC		ON	·							
11.1	Information on toxicological	effects								
	Acute toxicity No data available	11 - B						1		
	Inhalation: No data available									
	LD50 Dermal - Rat - male and (OECD Test Guideline 402)	d female - > 2,000 r	mg/kg						1.1	
	No data available									
1 1	Skin corrosion/irritation Skin - Rabbit		1.1	:	111	1	:	111	1	
	Result: No skin irritation - 4 h (OECD Test Guideline 404)	ni h			1			1		
	Serious eye damage/eye irr	itation								
'	Eyes - Rabbit Result: No eye irritation (OECD Test Guideline 405)	$x^{i} = -x^{i}$:	¹	. 1
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·			·			· · · ·			·	

Respiratory or skin sensitisation

- Mouse

Result: Does not cause skin sensitisation. (OECD Test Guideline 429)

Germ cell mutagenicity

Hamster Lungs Result: negative

Carcinogenicity

- IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
- ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.
- NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.
- OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity

No data available

No data available

Specific target organ toxicity - single exposure No data available

Specific target organ toxicity - repeated exposure No data available

Aspiration hazard

No data available

Additional Information

RTECS: Not available

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

12. E	COLOGICAL INFOR	MATION	1									
12.1	Toxicity No data available	·			÷.,			5			·	
12.2	Persistence and de No data available	gradabil	ity	· .								
12.3	Bioaccumulative po No data available	otential						I			I	
12.4	Mobility in soil No data available	'		1	'		i.			÷.	¹	
12.5	Results of PBT and PBT/vPvB assessm				al safety	assessme	ent not req	uired/not	conducte	d		
12.6	Other adverse effect	sts					1					
	No data available											
13. D	ISPOSAL CONSIDER	ATIONS	1		1	1						
13.1 \	Naste treatment meth	nods										

Product

Offer surplus and non-recyclable solutions to a licensed disposal company.

										· · ·	
	Contaminated packaging Dispose of as unused produc	ot.	1		· · ·	`;			`:		
14. 1	RANSPORT INFORMATION		1	'			'			'	
	DOT (US) Not dangerous goods										
·	IMDG Not dangerous goods		; · ·	1 1			1			·	
	IATA Not dangerous goods						н н н	н н н	1	 	
	SARA 302 Components										
·	No chemicals in this material SARA 313 Components This material does not contai	in any chem	nical cor	mponent	s with kr	າown CAS nu				hold	
	SARA 313 Components	in any chem	nical cor	mponent	s with kr	າown CAS nu				shold	:
· ·	SARA 313 Components This material does not contai (De Minimis) reporting levels SARA 311/312 Hazards	in any chem established now Comp	nical cor d by SA onents	mponent RA Title	s with kr III, Secti	nown CAS nu ion 313.				shold	
· ·	SARA 313 Components This material does not contai (De Minimis) reporting levels SARA 311/312 Hazards No SARA Hazards Massachusetts Right To Ki	in any chem established now Comp to the Mass	nical cor d by SA onents achusel	mponent RA Title	s with kr III, Secti	nown CAS nu ion 313. r Act.		hat excee	d the thres	shold	
	SARA 313 Components This material does not contai (De Minimis) reporting levels SARA 311/312 Hazards No SARA Hazards Massachusetts Right To Ki No components are subject t	in any chem established now Comp to the Mass	nical cor d by SA onents achusel	mponent RA Title	s with kr III, Secti	nown CAS nu ion 313.			d the thres	shold	
· · · ·	SARA 313 Components This material does not contai (De Minimis) reporting levels SARA 311/312 Hazards No SARA Hazards Massachusetts Right To Kin No components are subject to Pennsylvania Right To Kind	in any chem established now Comp to the Mass ow Compor	nical cor d by SA onents achuset nents	mponent RA Title	s with kr III, Secti	nown CAS nu ion 313. v Act. CAS-No.		hat excee	d the thres	shold	
	SARA 313 Components This material does not contai (De Minimis) reporting levels SARA 311/312 Hazards No SARA Hazards Massachusetts Right To Kin No components are subject to Pennsylvania Right To Kind Niobium	in any chem established now Comp to the Mass ow Compor	nical cor d by SA onents achuset nents	mponent RA Title	s with kr III, Secti	nown CAS nu ion 313. v Act. CAS-No.		hat excee	d the thres	shold	

<u>16. C</u>									
·	HMIS Rating Health hazard:	0		1		111	1	-	 1
	Chronic Health Hazard: Flammability: Physical Hazard	0 0	1		1 I				
'	NFPA Rating Health hazard:	0				:	¹	$\mathcal{A}^{(1)}$	

Fire Hazard:0Reactivity Hazard:0

other reproductive harm.

Further information

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