

SAFETY DATA SHEET

		111			111		· · ·	111	Date	Accesse	ed: 25/08	/2023
1		.:	÷.	н н н	.:	1	1 1 1	.:	Dat	e Revise	ed: 20/11	/2022
1						t.			;		14. 14.	:
SE	CTION	1. ID			TION							
	uct Name				:**		н н Н	111		н н н	111	
	#: 7440-5				.:	÷.,	н н н	. :	÷.,	: 1	.1	1
	vant iden											
	olier detai										· .	
Stanf	ord Adva	nced Ma			:		1 - 1 1		1		111	
Tel: (949) 407-	8904			.:	1			1	1 I		
	ess: 2366											
1		1.0			1.0			1.0			1.0	
	CTION											
Class	sification a	accordin	a to Rea	nulation (FC) No	1272/2	2008					
	substance						1.1			ording to		
		15 1101 0	lassillet	1 as haza		Jiicaili						
	ation.						1 - 1 1				111	-
Class	sification a		•									
N/A		. '	<u>.</u>		. '	· .		. '				
nforn	nation co	ncerning	particu	lar hazar	ds for h	uman a	and envir	onment:			1. 1.	
No da	ata availa	ble										
Haza	rds not ot	herwise	classifie	ed	:**		1 - 1 1				111	1
No da	ata availa	ble										

Televisione de la companya de la com

						1				1	
Label elements	1		.:			.:		1 - 1 1			
Labelling according to R	egulati	on (EC) N	o 1272/	2008							
N/A			· · .							t.	
Hazard pictograms											
N/A								1			
Signal word	1	н н н	.:		н н н	.1		н н н	.1		
N/A			1.			1.			·		
Hazard statements	,	,	,	1		ł		,	,	'	·
N/A						: • •			: • •		
WHMIS classificationNot											
Classification system									.:		
HMIS ratings (scale 0-4)	1		1. 1.	1		Ч.,	÷.		1. 1.	t.	. • •
(Hazardous Materials Ide	entifica	tion Syste	em)								
HEALTH		· · ·	: • •		н н н			1 I			
FIRE	1		.:	1	1 - 1 1	.:	1			1	
REACTIVITY											
			1.						· · .		
0										:	
0							1				1
Health (acute effects) = $($		н н н	.:		н н н	.1	1	н н н	.1		
Flammability = 0 Physical Hazard = 0	:		1.			1. 1.	i.		1. 1.	:	
Other hazards											
Results of PBT and vPvI	Basses	ssment			н н н		-	н н Н			
PBT:			.:			.:			.:	÷.	
N/A	1	r		1		1	1	ı	1	,	
	: ¹		1	t.	.11		÷.		1. 1.	t.	. • •
N/A											
								н н н			
al di se	1	н н н		1	н н н			1 - 1 1		1	

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substances	di series	1.	:		14	:		1. 1.	t.	. '
CAS No. / Substance Nan	ne:									
7440-56-4 Germanium	1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -			1 I	: ' '		н — н Н			
Identification number(s):										
EC number:		i	,	,		,		ł	,	
231-164-3	:'		÷			:				
	: : :	1.1.1		н н н		1	1 I	1.1.1		
SECTION 4. FIRS	ST AID I	MEAS	URE	S		:				
Description of first aid mea										
General information		· .			· .					
No special measures requ	lired.									
If inhaled:	: .	i.	1			1		,		
Seek medical treatment in	case of con	nplaints.		н н н			н н н			
In case of skin contact:	: 	۰.,			·			÷.,		
Generally the product doe										
In case of eye contact:					: • •					
Rinse opened eye for seve	eral minutes	under ru	Inning	water. If sy	ymptom	s persi	st, consı	ult a doct	or.	
If swallowed:										
If symptoms persist consu	It doctor.	1. 1.	:		1. 1.			1. 1.	i.	
Information for doctor										
Most important symptoms	and effects,	both acu	ute and	l delayed	; • •	1	н н н	; · · ·		
	to modical at							.1	1	
Indication of any immediat			-					14. 14.	:	

SECTION 5. FIREFIGHTING MEASURES

Extinguishing media				1	н н н	1		.:	
Suitable extinguishing age	nts								
Special powder for metal fi	res.	Do not use	water.			:			
For safety reasons unsuita Water		•	0 0		1 - 1		1 - 1 1	;••	
Special hazards arising fro	m th	eisubstand	e or mi	xture	1 I		н н н	1	
If this product is involved ir	n a fii	re, the follo	wing ca	an be r	eleased:				
Metal oxide fume				1		ì		1	1
Advice for firefighters			; • •						
Protective equipment:									
No special measures requ	ired		.:	1,	1 - 1 1				

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protectiv										
Not required.										
Environmental precautions:		14. 1	;		1.		199		:	,
Do not allow material to be rele	eased to th	e enviro	onmen	t without o	official p	ermits.				
Do not allow product to enter d	rains, sew	age sys	stems,	or other w	ater cou	urses.	н н Н			
Do not allow material to penetr	ate the gro	ound or	soil.		.:	1		.:	1	
Methods and materials for cont	ainment a	nd clea	nup:							
Pick up mechanically.		<u>с</u> ,	;		Ч.,			1.	:	
Prevention of secondary hazar										
No special measures required.	1 I						н н Н	111		
Reference to other sections	н н н	.1	1	н н н	.1		н н н	.÷		
See Section 7 for information of See Section 8 for information of			tion e			, , ,				,
See Section 13 for disposal inf	ormation.		:		1.1.1		н н н		:	

SECTION 7. HANDLING AND STORAG	E :		н н н	,ł		
Handling				1. 1.	t.	
Precautions for safe handling						
Keep container tightly sealed.			1 I	111		
Store in cool, dry place in tightly closed containers.	1			1		
Information about protection against explosions and fires:					ı	
No special measures required.		1	111	14	ť	. ' '
Conditions for safe storage, including any incompatibilities						
Requirements to be met by storerooms and receptacles:			1 - 1 1			
No special requirements.		1				
Information about storage in one common storage facility:	1. 1.					
Not required.						
Further information about storage conditions:			н н Н			
Keep container tightly sealed.						
Store in cool, dry conditions in well-sealed containers.			,		· ,	
Specific end use(s) No data available		Ľ	11	1.	÷.	
				111		
SECTION 8. EXPOSURE CONTROLS/F	PERSO	NAL				
PROTECTION				·		
Additional information about design of technical systems:						
No further data; see section 7.			н н Н			
Control parameters	1					
Components with limit values that require monitoring at the w						
The product does not contain any relevant quantities of mate	rials with c	critical	/alues	1.	t.	
that should be monitored at the workplace.						
Additional information:	111		н н н	111	1	
No data		1				

Exposure controls			1		.:	:			1	
Personal protective equip	oment									
Follow typical protective	and hygie	enic practices	s for ha	ndling ch	emicals.				t.	
Maintain an ergonomical	ly approp	riate working	g enviro	nment.						
Breathing equipment:				1						
Not required.	· · · ·		1	1 - 1 1			н н Н	.1		
Protection of hands:		· · · ·								
Not required.	1		i	1	1	i			i	
Penetration time of glove	material	(in minutes)	:			:			:	
No data available				,			,			
Eye protection:	· · · ·		÷.,	н н н		1	н н 1		1	
Safety glasses		· · · ·	:		÷.,	:		1. 1.		
Body protection:										
Protective work clothing.	:			н н н	111	1		; • •	:	
						÷.			÷.	
SECTION 9. PH	YSICA		CHE	MICA)PFF	RTIES			
		· · · ·								. '
Information on basic phy		-	-							
Appearance:					1					
Form: Solid in various for	rms		÷.,	н н н		1	н н н	, i		
Color: Silver-colored Odor: Odorless		· · · ·								
Odor: Odorless	1		i		1	i	1		i	
Odor threshold: No data			:							
pH: N/A	1		i	ı		i	,		i	
Melting point/Melting ran	ge: 937.2	°C (1719 °F)	н н Н		1	н н н	.1	1	
Boiling point/Boiling rang	e: 2830 °	C (5126 °F)								
Sublimation temperature	/ start: N	o data availa			ı	,				
Flammability (solid, gas)										
No data available.										
Ignition temperature: No	data avai	lable	1	н н н	.1	1	н н н		1	

		1	111		1						
Decomposition temperat	ture: No	o data avai	ilable	÷.,	н н н		1		.:	÷.,	
Autoignition: No data ava	ailable.									4	
Danger of explosion: No	o data a	vailable.		1							. '
Explosion limits:											
Lower: No data available	е		; ' '				а 1				
Upper: No data available	e	н н н	.:	1	н н н		÷.,		.:		
Vapor pressure at 20 °C	; (68 °F): 0 hPa	· .			1.	. 1				
Density at 20 °C (68 °F):	: 5.32 g	g/cm	·				ı				
3									; • •		
(44.395 lbs/gal)								,			-
Relative density	1	н н н		1.			1.		.:	÷.,	
No data available.	1		۰.	:		1. 1.	:		1. 1.	: ¹	
Vapor densityN/A											
Evaporation rate		н н н	; • •	-	н н н	; • •	1	на на 1	111	-	
N/A	1		,			.1			,		
Solubility in Water (H	' ,			' .		.'	۰,	1	. '	1.	
2 : ' '	1			: ¹		19. 19.	:	111	14. 19	: ¹	
O): Insoluble											
Partition coefficient (n-od	ctanol/v	water): No	data av	/ailabl	Ð		1 1		: ' '	:	
Viscosity:	1	1 I	.:	÷.,	1 - 1 1		÷.,		.:		
Dynamic: N/A											
Kinematic: N/A			· .	:			:		14.	÷	
Other information									- .		
No data available		н н н					1				
	1		i I	1		i i			1		
		····					. '		· .		
SECTION 10. S	IАБ			KEr	ACTIVI	İΥ				i	
Reactivity				1			1			1	

No data available

Chemical stability

Stable under recommen	ded storag	ge conditions	S.					.:	1	
Thermal decomposition	/ condition	s to be avoi	ded:							
Decomposition will not c	occur if use	ed and store	d accor	ding to s	pecificati	ons.		14	1	. '
Possibility of hazardous	reactions									
No dangerous reactions	known				1.1					
Conditions to avoid			1				н н н			
No data available		· · · ·			· .			· .		
Incompatible materials:	i i	· ·	1			i				
No data available		1 - 1 - 1 1				1			:	
Hazardous decomposition				1		,				,
Metal oxide fume			1		.1	1		.1	1	
	, ¹	· · .	1		· .			· .	:	
SECTION 11. T				IFOR	MATIC	ON				8
Information on toxicolog	ical effects	;		1 - 1 1						
Acute toxicity:										
The Registry of Toxic Ef	fects of Ch	nemical Sub	stances	s (RTEC	S) contaiı	ns acut	e toxicity	data for	this	
substance.										
LD/LC50 values that are	e relevant f	or classifica	tion:							
No data					. :		н н н			
Skin irritation or corrosic					,					
Generally the product do	pes not irri	tate the skin	-		· .			· .	1	
Eye irritation or corrosio	n:									
No irritant effect.		i ¹			1			1		
Sensitization:					.1	1	н н н			
No sensitizing effects kr			. '		· .			· · ·		
Germ cell mutagenicity:		· .				;				
No effects known.		1 - 1 - 1 1							:	
	1									

Carcinogenicity:

No classification data on carcinogenic properties of this material is available from the EPA, IARC,

	1		1			1	1		1		,
NTP, OSHA or ACGIH.		н н н	. :	1		.:	1				:
Reproductive toxicity:											
No effects known.	1			1		14	1			1	. '
Specific target organ sys	tem to	xicity - rep	eated e	exposu	re:						
No effects known.Specifi	ic targe	et organ sy		oxicity ·		posure:					
No effects known.	1		1		н н н	.:	÷.	н н н			
Aspiration hazard:											
No effects known.	1										.'
Subacute to chronic toxic	city:			1		:	:			:	
The Registry of Toxic Eff											,
data for this substance.	1	н н н			н н н		1				
Additional toxicological ir	nforma	tion:	·							:	
To the best of our knowle	edge th	ne acute a									
Carcinogenic categories					1 I	:					
OSHA-Ca (Occupational	Safety	/ & Health	Admini	stratio	n)						
Substance is not listed.			.:		н н н	1	1		.1	÷.,	

SECTION 12. ECOLOGICAL INFORMATION

Toxicity	1			1		.:	:.		.:	:	
Aquatic toxicity:											
No data available			<u>''</u>	1		14	1		· · .		,
Persistence and degrada											
No data available					1 - 1 1	1.1.1					
Bioaccumulative potentia	al	н н н		1	1 - 1 1	.:	1.	н н н		1.	
No data available Mobility in soil	:		1. 1.	1		14. 1	e ^r		14. 1	a' -	,
No data available Additional ecological info			:			:	:		111	:	
Do not allow material to	be rele	eased to th	ne enviro	onmen	t without c	official pe	ermits.	н н н		1.	

Avoid transfer into the e	nvironm	ient.		1			1	1 - 1 1			
Results of PBT and vPv											
PBT:			<u>с</u> .								
N/A vPvB:	;		; • •	-		;		: 1	111	;	
N/A						.:					
Other adverse effects No data available	:			:1		14. 1	: ¹	19		:	
	1	н н н			н н 1	1.1.1	1				
SECTION 13. D	ISPC	SAL (CON	SIDE	ERATI	ONS			.1	1.	
Waste treatment method	ds			:						t.	
Recommendation											
Consult official regulatio	ns to er	nsure prop	per disp	osal.	н н Н	; · · ·			111		
Uncleaned packagings: Recommendation:	÷.			ι,	1 1 1	.:	÷.,	1 1 1	, i	÷.	
Disposal must be made	accordi	ng to offic	cial reg	ulation	S. 👘	с. С.	t. L	19		:	
									1 1 1 1		
SECTION 14. T	RAN	SPOR		FOR	MATIC	DN	1		.:	1	
UN-Number											
DOT, ADN, IMDG, IATA	: ¹		· · ·	:		1.			1.		
N/A											
UN proper shipping nam	neDOT,	ADN, IMI	DG, IAT	A							
N/A	1	1 - 1 1		1	н н н		1		.:	1	
Transport hazard class(DOT, ADR, ADN, IMDG			1.	;'		14. 1	ť		5. 1		
Class N/A											
Packing group	1	1 I	.1	1	н н н				.:	1	

	1		1		,	1	:		1	1	
DOT, IMDG, IATA	1	1 - 1 1		1	н н н	.:	1				
N/A											
Environmental hazards:											
N/A Special precautions for	user	1 - 1 1	;**		1 1 1				;		
N/A	1	1 I		1,	1 I 1		1			1	
Transport in bulk accord	ling to	Annex II c	of MARF	POL73	78 and the	e IBC C	ode				
N/A	i		<u>,</u>	i		· ,				1	
Transport/Additional info	ormatio	on:	;··	;		;	;	: 1	;		
Marine Pollutant (DOT):	Ξ.	н н н	1	÷.,	н н н			н н Н	.1	1.	
No	:		14. 1	:'		14	: ¹			1	

SECTION 15. REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture												
National regulations	1. 1.			1. 1.	t.		1. 1.	ľ				
All components of this product are listed in the U.S. Environmental Protection Agency Toxic												
Substances Control Act Chemical subs	tance In	ventor	y.	111		н н н	111					
All components of this product are listed on the Canadian Non-Domestic Substances List (NDSL).												
SARA Section 313 (specific toxic chem												
Substance is not listed.								1				
California Proposition 65												
Prop 65 - Chemicals known to cause ca	ancer											
Substance is not listed.		1	1 - 1 1		1.	1 - 1 1	1	1.				
Prop 65 - Developmental toxicity Substance is not listed.	14. 1	: ¹		14. 1	a' -		14. 1	÷				
Prop 65 - Developmental toxicity, femal Substance is not listed.	e	;	1 1 1	:**		1 1 1	:	:				
Prop 65 - Developmental toxicity, male		۲.	н н н				,÷	÷.,				

Substance is not listed.			1			1			÷.,			
Information about limitation	of use:											
For use only by technically	qualified indiv	viduals.	:		1.				:			
Other regulations, limitations and prohibitive regulations												
Substance of Very High Co	oncern (SVHC	c) accord	ding to	the REAC	1	1)06.			
Substance is not listed.			1	r - 1 1		1	1 I		1			
The conditions of restriction	ns according t	to Article	e 67 ar	d Annex X	VII of t	ne Reg	ulation (E	C) No				
1907/2006 (REACH) for the manufacturing, placing on the market and use must be observed.												
Substance is not listed.			:			1			1			
Annex XIV of the REACH Regulations (requiring Authorisation for use)												
Substance is not listed.	н н н		1	н н н			н н н		1			
REACH - Pre-registered su	Ibstançes	1.	:		1. 1.				i.			
Substance is listed.												
Chemical safety assessme	nt:			н н н		1						
A Chemical Safety Assess	ment has not	been ca	rried o	ut.	;			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.