

### SAFETY DATA SHEET

	111						111	Date	Accesse	d: 25/08	8/2023
an ai	1		ť			ť	1	Dat	e Revise	d: 10/12	2/2022
	1						1	1		1	:
SECTION				_							
Product Name							111		1 1 1	111	1
CAS #: 7440-5	-			÷.		:	1		:		
Relevant iden											
Supplier detai									opinione		:
Stanford Advar E-mail: sales@	nced Ma	iterials rials.co	m		;						.:
Tel: (949) 407-	8904					1			:	1	
Address: 2366											
						J.S.A.		1			:
					:				· · · ·		
	2. H	AZAI	RDS I	DENT	IFIC	ΑΤΙΟΙ	N :	.:		: · ·	.:
SECTION	<b>2. H</b>	<b>AZAI</b>	RDS I	<b>DENT</b> Jre	IFIC	ΑΤΙΟΙ	N :*** ::			311 31	.: 
SECTION Classification of	<b>2. H</b>	<b>AZAI</b> bstance g to Re	RDS I	<b>DENT</b> ure (EC) No	<b>TFIC</b>	<b>ATIOI</b>	N (2000) (2.1) (2.1)			411 - 41 - 41	28 299 11
SECTION Classification of Classification a The substance regulation.	<b>2. H</b> of the su according is not c	<b>AZAI</b> bstance g to Re lassified	RDS I e or mixtu gulation d as haza	DENT ure (EC) No ardous to	<b>TFIC</b> 1272/2 health	ATIOI	N N N N N N N N N N N N N N N N N N N	ent acc	cording to	the CLF	. : . · ·
SECTION Classification of Classification a The substance regulation. Classification a	<b>2. H</b> of the su according is not c	<b>AZAI</b> bstance g to Re lassified	RDS I e or mixtu gulation d as haza ective 67	DENT ure (EC) No ardous to	TIFIC 1272/2 health	ATIOI	<b>N</b>	ent acc	cording to	the CLF	. : . · · ·
SECTION Classification of Classification a The substance regulation.	<b>2. H</b> of the su according is not c	<b>AZAI</b> bstance g to Re lassified	RDS I e or mixtu gulation d as haza ective 67	DENT ure (EC) No ardous to	TIFIC 1272/2 health	ATIOI	<b>N</b>	ent acc	cording to	the CLF	. : . · · ·
SECTION Classification of Classification a The substance regulation. Classification a	<b>2. H</b> of the su according is not c	<b>AZAI</b> bstance g to Re lassified	RDS I e or mixtu gulation d as haza ective 67	DENT ure (EC) No ardous to	TFIC 1272/2 health	ATIOI	<b>N</b> nvironmo 999/45/E	ent acc	cording to	o the CLF	

Hazards not otherwise classified

No data available

							1					
Label elements	1								1	÷.,		:
Labelling accordin	g to Re	egulati	on (EC) N	o 1272	/2008							
N/A										÷.,		
Hazard pictograms	S		1 - 1 1		1	1 1 1	1.1.1	.1				
N/A												
Signal word							1.			1.		1
N/A Hazard statements				1								
N/A												
WHMIS classificat	ionNot	contro	olled									
Classification syste	em					:	1			1.		
HMIS ratings (scal	le 0-4)						1			1		
(Hazardous Materi												
HEALTH		.:	1 I								.1	
FIRE REACTIVITY	:		e <sup>r</sup>			÷	1		:	1		:
0 : ···	:.			1	1						:	
			н н н	1.1.1	1	1 - 1 1	1.1.1		н н Н			
Health (acute effect	cts) = (	)		1		:*	1			1		
Flammability = 0												
Physical Hazard =	0											
Other hazards												
Results of PBT an	d vPvE	3 asse	ssment									
PBT:	1		1			:				1.		:
N/A vPvB:	1	1 1 1		: .			4	:		÷.	:	
N/A	:	.:				· · ·	111	.1		111	.:	
an a'									:			:

### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substances									1.		,
CAS No. / Substance N	ame:										
7440-56-4 Germanium	.:				н н н	; • •	.1	н н н	; • •	.1	
Identification number(s)	):	. '				:					
EC number:	1	1	,	1	ı	1	1	1	1	1	
231-164-3			1			:			1		
ja se ja se an	.:		1.1.1						:	.:	
<b>SECTION 4. FII</b>	RST A		ASL	IRES	<b>3</b>						
Description of first aid m	neasures										
General information				1							,
No special measures re	quired.										
lf inhaled:	.'		1			1		1	1		,
Seek medical treatment	t in case o	of compla	ints.			÷.,			÷.,		
In case of skin contact:				;		:					
Generally the product d						,					
In case of eye contact:				;			;				,
Rinse opened eye for se											
If swallowed:			1		: <sup>1</sup>	1		: <sup>1</sup>	1		
If symptoms persist con	sult docto	or.				÷.				:	,
Information for doctor											
Most important symptor	ns and ef	fects, bot	h acute	e and d	elayed	; • •		н н н	; • •	.1	
No data available			1								
Indication of any immed					al treatme				<b>`</b> .		
No data available			1.	1		1,			1.		,

### SECTION 5. FIREFIGHTING MEASURES

		1		1	1		1				
Extinguishing media			1								
Suitable extinguishing a											
Special powder for meta	al fires.	Do not us	se wate	er.		÷.,					
For safety reasons unsu		-									
Water									: * *		
Special hazards arising	from th	e substar	nce or r	nixture		÷.,		d.	1		
If this product is involve	d in a fi	re, the fol	lowing	can be	released	1:				1	
Metal oxide fume	i			;			1				
Advice for firefighters											
Protective equipment:											
No special measures re	quired		1	.11		1.	. 11	ť	1	. 11	

## SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipr									
Not required.						ti i			
Environmental precautions:	Ξ.	:					1		,
Do not allow material to be released to	the env	ironmeı	nt withou	t official	permits	ŝ.			
Do not allow product to enter drains, se	wage s	ystems	or other	water co	ourses.		;**	1	
Do not allow material to penetrate the g	round c	or soil.		:					
Methods and materials for containment	and cle	eanup:							
Pick up mechanically.	1			1					
Prevention of secondary hazards:									
No special measures required.		.:			.1			.1	
Reference to other sections	1						1		
See Section 7 for information on safe have See Section 8 for information on person					:		÷.	:	
See Section 13 for disposal information			н н 1	;**			:	jê.	

SECTION 7. HANDLING A	ND S	TOR	AGE	1		:	÷.		:
Handling	1	1		÷.	-		÷.		
Precautions for safe handling									
Keep container tightly sealed.		. :		1.1.1	.1		: ' '	.1	
Store in cool, dry place in tightly closed c	ontainer	S.		;		:			
Information about protection against expl	osions a	nd fires	3:	,	,				,
No special measures required.				1			1	:	
Conditions for safe storage, including any	/ incomp	atibilitie	es						
Requirements to be met by storerooms a	nd recep	otacles:		1.1.1			: * *	.:	
No special requirements.	1		1	1					
Information about storage in one commor	-	-							
Not required.									
Further information about storage condition	ons:								
Keep container tightly sealed.	1			1	1				1
Store in cool, dry conditions in well-seale	d contair	ners.							;
Specific end use(s)		1		1	1			:	
No data available		1		ı			ı		
			i i		.:				
SECTION 8. EXPOSURE C	ONT	ROL	S/PEF	RSO	NAL	:	÷.		:
PROTECTION									
Additional information about design of teo									
No further data; see section 7.		.:	r - 1 1	1 1 1 1	.:	н н н	: * *	.:	
Control parameters									
Components with limit values that require							÷.		;
The product does not contain any relevar	nt quanti	ties of r	naterials	with cr	itical va	alues			
that should be monitored at the workplace	e.								
					.1	н н н			

No data

	1										
Exposure controls		1	1								1
Personal protective equi	pment										
Follow typical protective	and hygi	enic prac	tices fo	or hand	lling chem	nicals.					• •
Maintain an ergonomical			-								
Breathing equipment:		1				111					
Not required.			1			1					;
Protection of hands:			;				:				
Not required.	,		1	i.			1			1	
Penetration time of glove	e material	l (in minu	tes)	.:					: • •	1	
No data available											,
Eye protection:			1	, i i ,	1						;
Safety glasses			1	1							
Body protection:											
Protective work clothing.				.:			.:		: • •	.:	
ure d'alle du la des			· .			1		:	1.		:
SECTION 9. PH	YSIC	AL AN	DC	HEM	ICAL	PRO	PER	TIES			
Information on basic phy	sical and	chemica	l prope	erties							
Appearance:		1			н н н			н н н		1	
Form: Solid in various fo	rms	1	;								
Color: Silver-colored											
Odor: Odorless			÷.,	1							
Odor threshold: No data											
pH: N/A		1								.1	
Melting point/Melting ran	ge: 937.2	2 °C (171	9,°F)						1		
Boiling point/Boiling rang	je: 2830 °	°C (5126	°F)								
Sublimation temperature	/ start: N	lo data av				1.			1.	1	
Flammability (solid, gas)	1. A	1		1							
No data available.				1						.1	
Ignition temperature: No	data ava	ilable	1								

						1			
lo data avail	able								:
).									
available.									
	1			1		:	1		:
=): 0 hPa		:							
g/cm	1	,		1	1				
		.:		:			:	.:	
:	1					:			:
	· .						· .		
		,							
							1		:
	1			1					
water): No c	lata av	ailable	· ·	: ' '		1 - 1 1	: • •		
:	÷.,		;	1		1			:
	1	-		1	:		1.		
н н н		.:		: · ·	.1	1 1 1	; · ·	.:	
	·		:			1			:
	ND	REA	CTIVI	ΓY					
	lo data avail e. available. =): 0 hPa g/cm	lo data available e. available. =): 0 hPa g/cm	lo data available	lo data available	Io data available Io data available   available.	Io data available Io data available Io data available Io data available   Io data available Io data available Io data available Io data available   Io data available Io data available Io data available Io data available   Io data available Io data available Io data available Io data available   Io data available Io data available Io data available Io data available   Io data available Io data available Io data available Io data available   Io data available Io data available Io data available Io data available	Io data available IA IA IA IA IA   available IA IA IA IA IA   IA IA <	Io data available       IA       IA	Io data available       Io       Io

				1						
Stable under recommended s	torage con	ditions.		:			:			
Thermal decomposition / conc	litions to be	e avoid	ed:							
Decomposition will not occur i	f used and	stored	accor	ding to sp	pecificati	ons.				
Possibility of hazardous reacti	ons									
No dangerous reactions know	'n									
Conditions to avoid		1		t.			ť			
No data available Incompatible materials:		1,	:		÷.			:	:	
No data available										
Hazardous decomposition pro	ducts:									,
Metal oxide fume		1					1			1
		1								
SECTION 11. TOXI	COLOC	SICA		IFORM	MATIO	ON				
Information on toxicological ef	fects		1	ı			ı			
Acute toxicity:	:			:	1	. **				ľ
The Registry of Toxic Effects	of Chemica	l Subs	tances	(RTECS	s) contaii	ns acut	e toxicity	data for	this	
substance.										
LD/LC50 values that are relev	ant for clas	sificati	on:	1 - 1 1			1 - 1 1		.:	
No data		1		:			:			
Skin irritation or corrosion:										
Generally the product does no	ot irritate the	e skin.	:		1			4		
Eve irritation or corrosion:										

Germ cell mutagenicity:

No sensitizing effects known.

No effects known.

Carcinogenicity:

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

										. '	
NTP, OSHA or ACGIH.		:	1		:			÷	÷.		:
Reproductive toxicity:											
No effects known.			÷.,						1		
Specific target organ sys	stem to	oxicity - r	epeatec	l expos	ure:						
No effects known.Specif	fic targ	et organ	system	toxicity	v - single	exposure	e:		111	. :	
No effects known.		:			:	1		e <sup>r</sup>			:
Aspiration hazard: No effects known.	;		Ξ.			:.			÷.	1	
Subacute to chronic toxi	city:						:				
The Registry of Toxic Ef	fects o										
data for this substance.		: <sup>1</sup>	1		: <sup>1</sup>			t.	1		:
Additional toxicological i	nforma	ation:	:						÷.		
To the best of our knowl	edge t	he acute	and ch	ronic to	xicity of	this subs	tance i	s not full	y known.		
Carcinogenic categories	5								; • •		
OSHA-Ca (Occupationa					,						
Substance is not listed.	. * *	:	1				. * *	:		. * *	:
		1 1 1			1 1 1		1	1 1 1			

### SECTION 12. ECOLOGICAL INFORMATION

Toxicity	·	1			÷.,		1	1		
Aquatic toxicity:										
No data available					1					
Persistence and degradabi										
No data available			.:	н н н			н н Н		.:	
Bioaccumulative potential	e di si	÷.,		:	1.			1		:
No data available Mobility in soil		÷.,	;		÷.	;		÷.	:	
No data available	· · ·	:	.:		: · ·	.:	н н Н	:**	.:	
Additional ecological inform	nation:									
Do not allow material to be	released to	the envi	ironme	nt without	official	permits	i <u>.</u>	1		:

Avoid transfer into the e	environr	nent.	1					:			
Results of PBT and vPv											
PBT:											
N/A vPvB:	.1			.:		1 1 1 1	.:	н н н		.:	
N/A		:						e la companya de la c			
Other adverse effects No data available	:		, ,	1		:,	:		4.	;	
	.1	1 - 1 1	: • •			111			: • •	. :	
SECTION 13. D	DISPO	DSAL	CON	ISID	ERAT	IONS		:	1		:
Waste treatment methor Recommendation	ods			1		١,	:		: .	:	
Consult official regulation	ons to e	nsure pr	oper dis	sposal.			.:	н н Н		.1	
Uncleaned packagings: Recommendation:		, L	:			;		;	;		:
Disposal must be made	e accord	ling to of	ficial reç	gulatior	IS					1	
							.:	1 1 1	: ' '	.:	
SECTION 14. T								e la compañía de la c			
UN-Number											
DOT, ADN, IMDG, IATA	4			1		1.				1	
N/A UN proper shipping nar	neDOT	, ADN, IN	/IDG, IA	TĂ	1 1 1	111	.:		;**	.:	
N/A		:						t.			
Transport hazard class DOT, ADR, ADN, IMDO				1		1	:		:,		
Class N/A	.:	н н н	, , , , ,		1 - 1 1	1 1 1 1	.:	· · · ·			
Packing group		:	1	. * *	ť	4,		÷	1	. **	:

DOT, IMDG, IA			÷	1			÷.,		i.	÷.		
N/A												
Environmental	hazards:				1		· .	1		· ·		
N/A Special precau	itions for u	user	н н н	;••		1 1 1			1 1 1			
N/A												:
Transport in bu	ulk accord	ling to	Annex II	of MAR	POL73	8/78 and	the IBC (	Code				
N/A				.,	i		· .	i		· ·	i	
Transport/Addi DOT	tional info	ormatio	on:		.1	1 - 1 1		j.			,÷	
Marine Polluta	nt (DOT):		:	1		:		. **	t.	1.		:
No		;		1								

# SECTION 15. REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture												
National regulations				1			1					
All components of this product are listed in the U.S. Environmental Protection Agency Toxic												
Substances Control Act Chemical substan	nce Inv	entory.	1 - 1 1			1 - 1 1	; * *					
All components of this product are listed on the Canadian Non-Domestic Substances List (NDSL).												
SARA Section 313 (specific toxic chemica												
Substance is not listed.												
California Proposition 65												
Prop 65 - Chemicals known to cause can	cer											
Substance is not listed.			:			:						
Prop 65 - Developmental toxicity Substance is not listed.	1	1		1	1			:				
Prop 65 - Developmental toxicity, female Substance is not listed.		.:	1 - 1 1	1 1 1 1			; · ·	.1				
Prop 65 - Developmental toxicity, male			:			:						

Substance is not listed.	1				1			÷.,			
Information about limitation of use	e:										
For use only by technically qualifi	ed indivic	luals.			1						
Other regulations, limitations and prohibitive regulations											
Substance of Very High Concern (SVHC) according to the REACH Regulations (EC) No. 1907/2006.											
Substance is not listed.		÷.,			1						
The conditions of restrictions according to Article 67 and Annex XVII of the Regulation (EC) No											
1907/2006 (REACH) for the manufacturing, placing on the market and use must be observed.											
Substance is not listed.						1			;		
Annex XIV of the REACH Regulations (requiring Authorisation for use)											
Substance is not listed.		1		1	1	. * *	1	1			
REACH - Pre-registered substance	çes	1			1			÷.,	:		
Substance is listed.											
Chemical safety assessment:					1 1 1 1	.1		; * *	.:		
A Chemical Safety Assessment has not been carried out.											
a ser a ser al ser a	:	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.