

SAFETY DATA SHEET

1	. :	; • •	1	, , ,	; • •				Date	Accesse	d: 25/08	/2023
:			:						Dat	e Revise	d: 06/02	2/2023
н н н									1 I 1			
	CTION											
	uct Name:											1
CAS #	#: 10043- 1	11-5	÷					. 11				:
Relev	ant identi	ified us	ses of t	he subs	tance: S	cienti	fic resea	rch and	devel	opment		
Suppl	lier detail	s:										
Stanfo E-mai	ord Advan	ced Ma samate	iterials rials.co	n (1	. :	111	1		;	1
Tel: (9	949) 407-8	3904	: É			:			:			:
	ss: 23661							1	1 1			
SEC	CTION	2. H	AZAI	RDS I	DENT	IFIC	ΑΤΙΟ	N	1		;··	1
Classi	ification of	the su	bstance	e or mixtu	ure ,	:			ť			:
Classi	ification ad	ccording	g to Re	gulation	(EC) _, No	12,7,2/2	2008	;			:	
The s	ubstance i	is not c	lassifie	d as haza	ardous to	o health	n or the e	environm	ent aco	cording to	the CLF	5
regula	ation.		1			· :			1	. :		· .

Hazards not otherwise classified

No data available

Label elements

Labelling according to Regulation (EC) No 1272/2008

N/A

Hazard pictograms

			1				111					
N/A		:						:			:	
Signal word N/A			- 1 - 1 - 1	, i		1 - 1 1	.:			,÷		
Hazard stateme		· :	н 1 - 1			, , ,		1		1 / 1 1		
WHMIS classific	cation							÷				
Not controlled Classification sy		1 - 1 1		.1	1 I 1		.:	1 - 1 1		.1	1 I 1	
HMIS ratings (s	cale 0-4	•) ,			· .		111	۰.	,		· .	
(Hazardous Mat	terials lo	dentific	ation Sys	stem)HE	ALTH							
FIRE		1						: ¹			i.	
REACTIVITY				.:	1 I 1							
0												
0·	; • •		н 1 — 1	;**								
0 Health (acute ef	fects) =	: 0					1 I 1	:			1	
Flammability = ()			.1	1 I 1					1		
Physical Hazard	d = 0											
Other hazards	: ' '			111			111	1		111	1	
Results of PBT	and vPv	vB asse	essment	, 1.1 ,	1	1.1.1		:			:	
				.1								
vPvB: N/A	;	1	, , ,	;				1	. :		:	

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substances CAS No. / Substance Name: 10043-11-5 Boron nitride

				:		1	1	 1 1 1		
Identification number(s):	:			;				 		
EC number:										
233-136-6										
	•	, , ,	:		1 1 1	:		 :		
SECTION 4. FIF	RST /		EAS	URE	S		: 1	 	e ^r	
Description of first aid m	neasure	es				;				
General information				ı	ı		1		,	
No special measures rec	quired.					: "				
If inhaled:										
Seek medical treatment	in case	e of comp	olaints.	;	1.1.1	. * *		 	t,	
In case of skin contact:				1 I 1		.:		 		
Wash with water and so										
Generally the product do	oes not	irritate th	ıe skin.	· .				 111	1	
In case of eye contact:										
Rinse opened eye for se		minutes u								
If swallowed:	1 I			1 1		.1	1 I 1	 1		. '
Drink lots of water.										
Induce vomiting if patien	nt is cor	nscious.				111		: • •		
Information for doctor	. '			.'				 		
Most important symptom	ns and	effects, b	oth acu	ite and	delayed					
No data available				1 I 1		.1		 1		. '
Indication of any immedi	liate me	edical atte	ention a	nd spe	cial treat	ment ne	eded			
No data available	1	н 1. т.	; • •	1		111	1	111	1	

SECTION 5. FIREFIGHTING MEASURES

Extinguishing media

Suitable extinguishing agentsProduct is not flammable. Use fire-fighting measures that suit the surrounding fire.

			ł								
Special hazards arising	from t	he subst	ance or	mixture							
If this product is involve	d in a f	fire, the f	ollowing	can be	release	d:					
Nitrogen oxides (NOx)		199				.1		. * *	.1		
Boron oxide											
Advice for firefighters	`;										
Protective equipment:	÷						t.				
No special measures re	quired			1 I 1		,i	1 - 1 1		j.	1 - 1 1	

SECTION 6. ACCIDENTAL	RE	LEA	SE ME	ASU	RES	 	1	
Personal precautions, protective equipme	ent and	lemerg	gency proc	edures		 . * *	t.	
Particular danger of sli						 .:		
pping on leaked/spilled product.								
Not required.		1		1 1 1 1		 		
Environmental precautions: No special measures required.		:			:	 	:	
Methods and materials for containment a	nd clea	anup:	- 1 - 1 - 1		1 I			
Pick up mechanically.								
Prevention of secondary hazards:			н 1 — 1	; • •		 111		
No special measures required.						 		
Reference to other sections								
No dangerous substances are released.			1 - 1 1			 .1		
See Section 7 for information on safe har	ndling							
See Section 8 for information on persona	I prote	ction e	quipment.			 111	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 tight	ly closed	d contair	ners.							
Information about protection a	gainst ex	xplosion	s and fi	res:	.1					
The product is not flammable No special measures required.			1			1 1 1			`:	
Conditions for safe storage, inc	cluding a	any incoi	mpatibi	lities					:	
Requirements to be met by sto No special requirements.	preroom	s and red	ceptacl	es:	.1			.1	· · ·	
Information about storage in or Store away from oxidizing age		non stora	age fac	ility:					`:	
Further information about stora	age con	ditions:	:						:	
Keep container tightly sealed. Store in cool, dry conditions		1 1 1				· · ·	- 1 - 1 1			
in well-sealed containers.			1		; · ·			111	`: `:	
Specific end use(s) No data available		1 1 1	:1			1 ¹			:	
<u> </u>										

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

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:

Additional information:

The exposure limits that were valid when the MSDS was created were used.

No data

Exposure controls

Personal protective equipment

Follow typical protective and hygienic practices for handling chemicals.													
Maintain an ergonomically appropriate working environment.													
Breathing equipn	nent:			.:			.1				· ·		
Not necessary if	room is	well-ve											
In case of brief e	xposure	e or low	pollution	use res	pirator	/ filter dev	rice. In d	case of	intensive	or long	er		
exposure use res	spiratory	y prote	ctive devic	e that is	s indep	endent of	circulat	ing air.					
Not required.													
Recommended f			short term										
Filter P1													
Protection of han			н 1 - 1	ł		1 - 1 -	1						
Protective gloves	5. '										:		
Not required.	:	1 1		:			:			1			
Penetration time					ı			,					
No data available	9	1											
Eye protection:													
Safety glasses											1		
Body protection:	.:	1 I 1		. :	· ·		.1	1 1					
Protective work of	lothing.												
			1						1				
SECTION 9	9. PH	YSIC		ND C	HEN	IICAL	PRO	PER	TIES				
Information on ba	asic phy	/sical a	nd chemic	al prop	erties		.1	1			· · ·		
Appearance:													
Form:				1 1 1			1 1 1				`:		
Solid in various f	orms	:			;						:		
Color:													
White				, '	i.		, '	1		.'			
Odor:													
Odorless		1						-			1		
Odor threshold:		:			1			1			t.		

			1 1 1			1 1 1					
No data available.				;			;			:	
pH:											
N/A	1										
Melting point/Melting rang											
None	1			1	, , ,		1	1 - 1		1	
Boiling point/Boiling range	e:						:			:	
None						. :					
Sublimation temperature			,	1	,	1	I				,
3000 °C (5432 °F)								. :	: • •		
Flash point:											
N/AFlammability (solid, g	as)						1		111		
No data available.	1 I		.1	1 I		.:	1 I 1				
Ignition temperature:											
No data available	`	н 1 - 1	; • •			; • •	1		: * *	·	
Decomposition temperatu											
No data available	t.			:							
Autoignition:	1 1			1 I			1			· · ·	,
No data available.											
Danger of explosion:	`: :	н 1 - 1		`: `:					111		
Product does not present	t an ex	plosion ha	azard.								
Explosion limits:											
Lower:				1			1				
No data available											
Upper:					1 1 1						
No data available	1			1			:			i.	
Vapor pressure at 20 °C	(68 °F)):									
Vapor pressure at 20 °C 0 hPa	,			1			1				
Density at 20 °C (68 °F):	· .	i.		· .	1		· .			· .	
No data available.											
Relative density							:			i.	
	1 1		1	1 1		1					

		,	1 1								
No data availab	ole.				e l'				 		
Vapor density											
N/A					1						
Evaporation rat	e										
N/A			1 1 - 1				111		 		
Solubility in / M	iscibility	with			:				 		
Water:				:					 .:		
Insoluble		,			1						1
Partition coeffic	ient (n-	octano	l/water):		· .		;••			· .	
No data availab	ole.		1 1								
Viscosity:					:			1	 		
Dynamic:				.1							
N/A											
Kinematic:	: * *	1	н 1 - 1				111		 : * *		
N/A											
1				. * *	1				 		
Other information	on										
Other information		1 - 1 - 1		.:		.''	.:		 .:		
No data availab		·					; • •		 		
No data availab	ole 10. S	STAE	BILITY	AND	RE	ACTIV	/ITY	1	:	· .	
No data availab	ole 10. S	STAE		AND	RE	ACTIV	/ITY	1	:	· .	
No data availab SECTION Reactivity	ble 10. \$	STAE	BILITY	AND	RE	ACTIV	/ITY		 	: :	
No data availab SECTION Reactivity No data availab Chemical stabil	10. S ble	STAE	BILITY A	AND	RE		/ITY		 	: :	
No data availab SECTION Reactivity No data availab Chemical stabil	10. S ble	STAE	BILITY A	AND	RE		/ITY		 	: :	
No data availab SECTION Reactivity No data availab Chemical stabil Stable under re	ble 10. S ble ity comme	STAE	BILITY	AND ditions.	RE		,		: .:		
No data availab SECTION Reactivity No data availab Chemical stabil Stable under re Thermal decom	ble 10. S ble ity comme	STAE	BILITY torage conditions to be	AND ditions.	RE.						···
No data availab SECTION Reactivity No data availab Chemical stabil	ble 10. S ble ity comme nposition will not	ended s n / cond occur i	BILITY torage conditions to be	AND ditions.	RE.						···
No data availab SECTION Reactivity No data availab Chemical stabil Stable under re Thermal decom Decomposition	ble 10. S ble ity comme nposition will not ag to spe	ended s n / cond occur i ecificati	BILITY atorage cond ditions to be if used and ions.	AND ditions.	ed:						···
No data availab SECTION Reactivity No data availab Chemical stabil Stable under re Thermal decom Decomposition stored accordin	ble 10. S ble ity comme nposition will not ag to spe azardou	ended s n / cond occur i ecificati s react	BILITY atorage cond ditions to be if used and ions.	AND ditions.	ed:						···

	,			1	1 1						
No data available	1						:*			÷	
Incompatible materials:											
Oxidizing agentsHazard	dous de	ecompos	ition pro	ducts:		.:	1				. '
Nitrogen oxides											
Boron oxide											
		1.1.1	1 1	1		1					
						<u>.</u>					
SECTION 11. T	ΟΧΙ	COLC)GIC/	AL IN	IFORI			t.	1	1	
Information on toxicoloc	nical ef	fects									

i iion	nation on	giçare	incolo				
	1 1		1 1				
Acute	e toxicity:						

The Registry of Toxic Effects of Chemical Substances (RTECS) contains acute toxicity data for components in this product.

LD/LC50 values that are relevant for classification:

No data			н 1 - 1			н 1 - 1	1.1.1				
Skin irritation or c	orrosio	n:									
No irritant effect.								1			
Eye irritation or co	orrosio	n:		. :	н н н		.1	н н н			1 I
No irritant effect.											
Sensitization:										: ' '	1
No sensitizing eff	ects kn	own.		, i i							:
Germ cell mutage	enicity:										
No effects known		1		1							
Carcinogenicity:											
EPA-I: Data are ir	nadequ	ate for	an assess	sment c	of huma	n carcino	genic p	otential	-		
Reproductive toxi	city:				:			:			:
No effects known	-			:			:				
Specific target or								1			
No effects known Specific target org							; · ·	1	 		5
No effects known	. · · ·	:			1			ť			ľ

Aspiration hazard:										
No effects known.										
Subacute to chronic to:	kicity:		. 1			.1				
The Registry of Toxic E	Effects	of Chemica	al Subs	tances	(RTECS)	contain	s multij	ole dose to	oxicity o	data
for	1			1		1.1.1	1		: • •	1
this substance.										
Additional toxicological										
To the best of our know	vledge	the acute a	and chr	onic to:	xicity of th	is subst	ance is	not fully l	known.	
The substance is not s										
Carcinogenic categorie	S	н 1 — 1	1 1 1 1		1 1 1		1			1
OSHA-Ca (Occupation	al Safe	ty & Healtl	h Admir	nistratio	on)		e la compañía de la c			e la composición de la compo
Substance is not listed			1	· ·		1	1 I			· · ·

SECTION 12. ECOLOGIC		NFO	RMA	ΓΙΟΝ	`:			1	
Toxicity		:			1		. 11	t.	
Aquatic toxicity:	. !								
No data available									
Persistence and degradability				111	1		111	1	
No data available									
Bioaccumulative potential									
No data available				, i					
Mobility in soil									
No data availableAdditional ecological i	nforma	tion:	, , ,	: · ·	1	н 1 — 1	111	1	
Not known to be hazardous to water.		. *							
Do not allow material to be released to		,			,				
environment without official permits.					н н н				
Avoid transfer into the environment.									
Results of PBT and vPvB assessment	1 1 1								
PBT:									

	1	1 I					1 - 1	,		
Other adverse ef										
vPvB: N/A	.:	 	, i					.:		
N/A				:	 	ľ			1	

SECTION 13. DISPOSAL CONSIDERATIONS

Waste treatment methods	: * *	· .	 : * *		
Recommendation					
Smaller quantities can be disposed of with household waste.		1	 	1	
Consult official regulations to ensure proper disposal.			 .1		
Uncleaned packagings:					
Recommendation:	: • •	1	 : • •		
Disposal must be made according to official regulations.			 	e ^t	

SECTION 14. EXPOSURE CONTROLS/PERSONAL

PROTECTION	н 1 — 1	: ' '		1	; · · ·		 :	1	
UN-Number							 		
DOT, ADN, IMDG, IATA N/A		.:			.:		 .:	н н н	
UN proper shipping name DOT, ADN, IMDG, IATA		;	1		;	5	 :	' 1	
N/A			1				 	1	
Transport hazard class(es) DOT, ADR, ADN, IMDG, IATA		.:			.:			1 I	
Class N/A	4 4 - 4	:	1				 ; · ·	1	
Packing group			ť			ť	 	ť	

				1	1		1			1	
DOT, IMDG, IATA	:										
N/A											
Environmental hazards:								11			
N/A											
Special precautions for	user		1			1					
N/A	:						t.				
Transport in bulk accord	ding to	Annex II o		POL73	78 and th	e IBC C	Code				
N/A	ı			,				,			
Transport/Additional info	ormatio	on:		· .			· .				
DOT											
Marine Pollutant (DOT):	1		. * *			. * *	1		. * *	1	
No			.:								
Item:											
UN "Model Regulation"	· .										

SECTION 15. REGULATORY INFORMATION

Safety, health and environmental regulati	ons/leg	islation	specific f	or the su	ubstan	ce or mixt	ure	
National regulations			н н н	; • •			111	
All components of this product are listed i	n the U	.S. Env	vironmenta	al Proteo	ction A	gency To>	(ic	
Substances Control Act Chemical substa	nce Inv	entory.						
All components of this product are listed of	on the C	Canadia	an Domes	tic Subs	tances	s List (DSL	_).	
SARA Section 313 (specific toxic chemica								
Substance is not listed.					1			
California Proposition 65		:						
Prop 65 - Chemicals known to cause can	cer						:	,
Substance is not listed.	1		1	1	1	1		
Prop 65 - Developmental toxicity				;••	· .			,
Substance is not listed.								
Prop 65 - Developmental toxicity, female								

					1 1 1					
Substance is not listed.									÷	
Prop 65 - Developmental toxic										
Substance is not listed.	. 11				.:			.:		
Information about limitation of	use:									
For use only by technically qu	alified indi	viduals				`:				
Other regulations, limitations a									e ¹	
Substancot listed.		:			:			:		
Chemical safety assessment:										
A Chemical Safety Assessme	nt has not	been c	arried o	out.e of Ve	ry High	Conce	ern (SVHC	c) accord	d	
ing to the REACH Regulations	s (EC) No.	1907/2	2006.			ı			1	
Substance is not listed.			1			i'		199	ť	
The conditions of restrictions a	according	to Articl	le 67 ai	nd Annex 2	XVII of	the Re	gulation (E	EC) No		
1907/2006 (REACH) for the m	nanufactur	ing, pla	cing on	the marke	et and u	ise mu	st be obse	erved.		
Substance is not listed.		: * *				· .				
Annex XIV of the REACH Reg	gulations (i									
Substance is not listed.								. * *		
Chemical safety assessment:	- 1 - 1 1				.1	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.