

SAFETY DATA SHEET

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SECTION 1. IDENTIFICATION

Product Name: Boron Nitride Rod

CAS #: 10043-11-5

Relevant identified uses of the substance: Scientific research and development

Supplier details:

Stanford Advanced Materials

E-mail: sales@samaterials.com

Tel: (949) 407-8904

Address: 23661 Birtcher Dr., Lake Forest, CA 92630 U.S.A.

SECTION 2. HAZARDS IDENTIFICATION

Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

The substance is not classified as hazardous to health or the environment according to the CLP regulation.

Hazards not otherwise classified

No data available

Label elements

Labelling according to Regulation (EC) No 1272/2008

N/A

Hazard pictograms

Signal word			':			1:			·:		
Hazard statemen											
N/A		.:	1	:''	, ;	`:	: ' '	.;	`:	:	.:
WHMIS classifica	ation	٠.,	1,	1,		1,	1,		:,	1,	٠
Not controlled		,	1		1	4			٠.		
Classification sys			,	1		,	,		,	,	
HMIS ratings (sc	ale 0-4)	1	;**	, :	`;	: ' '	,:	·:	:''	.:
(Hazardous Mate		dentific	ation Sys	tem)HE	ALTH						
FIRE	1,		1,	1.		1.	1,		1,	1.	٠.,
REACTIVITY			`;	, ,		·;			·:		:
0											
O _: · · · :		.:	1:	;**	.:	`:	: ' '	.:	`:	: ' '	.:
0 Health (acute effe	ects) =	· O	:	1,	1	1,	1,		1,	1.	٠
Flammability = 0	•		1			·:			·:		
Physical Hazard											
Other hazards	: ' '	.:	1:	: ' '		`:	: "		`:	: "	.:
Results of PBT a	nd vPv	/B _, asse	essment			1	1		1,	:,	٠
PBT:											
N/A			1		1 1	`;			`: -		: .
vPvB:											
N/A		.:	1	: ' '	.;	1	!''	.:	`;	111	.:
• • • • • • • • • • • • • • • • • • • •						' ,	٠.			·.	
SECTION 3	3. CC	ЭМР	OSITIO	ON/II	NFO	RMAT	ION (N IN	NGRE	DIEN	ΤS

N/A

CAS No. / Substance Name:

10043-11-5 Boron nitride

identification num	iber(s)	- '	1,	1,		1,	1,		1.	1,	
EC number: 233-136-6			i)			1			1		
J 4	111	.:	1	: ' '	.:		111	.:	1:	:"	,:
SECTION 4	ı. FIF	RST	AID N	IEAS	URE	S	1,	٠	1,	:,	٠
Description of firs	t _, aid m	neasur	es		,	1			٠,		
General informati	on		,	,		,	,		,	,	
No special measu	ıres re	quired	l. ,	: ' '			; ' '	.;	1		
If inhaled:											
Seek medical trea	atment	in cas	se of com	plaints.	'	1,	1.	'	1,	1,	
In case of skin co	ntact:		1			1			·:		: .
Wash with water	and so	ap an	d rinse the	oroughly	/.						
Generally the pro	duct d	oes no	ot irritate t	he skin.	, ;	1	: ' '	, ;	1	: "	.:
In case of eye co	ntact:		:	:		;	:		:	:	
Rinse opened eye	e for se			,			,		,		
If swallowed:			`;			`:			' :		: .
Drink lots of wate	r.										
Induce vomiting if	patier	nt is co	nscious.	: ' '	, ;	·:	: ' '	, ;	`;	: ' '	.:
Information for do	ctor					1,	:		1	1	
Most important sy	/mpton	ns and									
No data available			i:			1			`:		: .
Indication of any	immed	liate m	edical att	ention a	nd spe	cial treatr	ment ne	eded			
No data available	!''	.;	`: 	111	.:	`: -	: "	.:	`;	:"	, ;
1,	1,						÷.				

SECTION 5. FIREFIGHTING MEASURES

Extinguishing media

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

Special hazards arising from the substance or mixture

If this product is involved in a fire, the following can be released:

Nitrogen oxides (NOx)

Boron oxide

Advice for firefighters

Protective equipment:

No special measures required

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Particular danger of sli

pping on leaked/spilled product.

Not required.

Environmental precautions:

No special measures required.

Methods and materials for containment and cleanup:

Pick up mechanically.

Prevention of secondary hazards:

No special measures required.

Reference to other sections

No dangerous substances are released.

See Section 7 for information on safe handling

See Section 8 for information on personal protection equipment.

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:
The product is not flammable
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:
Store away from oxidizing agents.

Further information about storage conditions:
Keep container tightly sealed.

Store in cool, dry conditions
in well-sealed containers.

Specific end use(s)

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Additional information about design of technical systems:

No further data; see section 7.

Control parameters

No data available

Components with limit values that require monitoring at the workplace:

None

Additional information:

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

No data

Exposure controls

Personal protective equipment

Follow typical pro	tective	aṇd h	ygienic pr	actices	for han	dling chen	nicals.		1,	1,	
Maintain an ergor	nomica	ally app	oropriate w	_							
Breathing equipm	ent:		`: -			`;			`: 		
Not necessary if r	oom is	s well-v	ventilated.								
In case of brief ex	posur	e or lov	w pollution	use re	spirator	y filter dev	vice. In	case of	intensive	or long	jer
exposure use res	pirator	y prote	ective devi	ce that	is indep	endent of	circula	ting air.	1,	1,	٠
Not required. Recommended fil	ter de		short terr		: .	1		:	1;		: .
Protection of hand	ds:		i:							:	.:
Protective gloves.	1.		1,	1,	1	1.	1,	1	1.	1,	٠
Not required.			`:	: '	:	`:	: '	: .	1	: '	
Penetration time of	of glov	e mate	erial (in mii	nutes)							
No data available	: ' '	, :	1	: ' '	.;	·:	: ' '	.:	1	: ' '	.:
Eye protection: Safety glasses	1,	٠	1,	1,	1	1.	1,	*	1,	1,	٠
Body protection:			1			1			`:		
Protective work cl	othing										
1	:	:		111	:		: ' '	:	-	: ' '	:
SECTION 9	. PH	IYSI	CAL A	ND C	CHEN	IICAL	PRO	PER	TIES	÷,	
Information on ba	sic ph	ysical a	and chemi	cal prop	perties						
1						1			. ,		

Information	on basic	physical	and o	chemical	properties
Appearance) :				

Form:

Solid in various forms

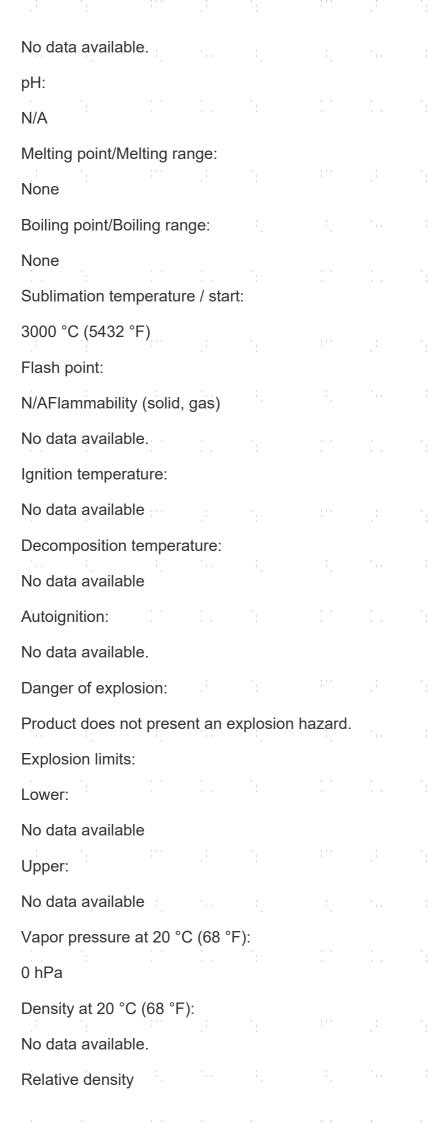
Color:

White

Odor:

Odorless

Odor threshold:



No data available.	٠:,	٠	1,	1,		1,	1,	٠	1,	:.	٠
Vapor density N/A			3		: .	1		: .	`:		
Evaporation rate N/A		,i	3	: ' '	.:	1		.:	1:	;**	.:
Solubility in / Misc	ibility v	with	1,	1,		1,	1,		:.	:,	٠
Water: Insoluble	: '	:.	1	: '	: .	1:		: .	`:		: .
Partition coefficier		ctanol/	water):	:**	,;	'n	:**	.:	`;		.:
Viscosity:	1,	٠	1.	1,		1,	1,	1	1.	1,	٠
Dynamic: N/A	: '	:.	1	: '	: .	1:		: .	1:	: '	: .
Kinematic:	: ' '	.:	'n			'n	:"	.:	1:	:"	.:
N/A Other information	1,	٠	÷,	1,	100	1,	1,	٠	1,	1,	٠
No data available			1			`:			1:		
ut in	: ' '	.:	`:	111	,1	·:		,:	`:		

SECTION 10. STABILITY AND REACTIVITY

Reactivity

No data available

Chemical stability

Stable under recommended storage conditions.

Thermal decomposition / conditions to be avoided:

Decomposition will not occur if used and

stored according to specifications.

Possibility of hazardous reactions

No dangerous reactions known

Conditions to avoid

No data available		:			1,	٠	1,	:.
Incompatible materials:								
Oxidizing agentsHazardous	decompo	sition pro	ducts:					
Nitrogen oxides								
Boron oxide			, '		1	, ;		1
	.	•		· ·	· ·		· ·	· ·
SECTION 44 TOY			A I È I K	IEOD!	MATI	SNI.		
SECTION 11. TOX	ICOLO	JGICA	AL IN	IFUKI	WAII	JN		
Information on toxicological	effects		.:	1		, ;	4	
Acute toxicity:								
The Registry of Toxic Effects	of Chem	ical Sub	stances	(RTECS	S) contai	ns acut	e toxicity	data for
components in this product.	1:			1:			1	
LD/LC50 values that are rele	evant for c	classificat	tion:					
No data	1	: ' '	, ;	1	: "		·;	: "
Skin irritation or corrosion:	:			:				:
No irritant effect.				`'				
Eye irritation or corrosion:	1			1			1	
No irritant effect.								
Sensitization:	1	: ' '	. ;	1	: "	. :	·:	
No sensitizing effects known					1,			
Germ cell mutagenicity:								
No effects known.	·:			`: :			i:	
Carcinogenicity:								
EPA-I: Data are inadequate	for an ass	sessment	t of hun	nan carci	nogenic	potenti	al.	
Reproductive toxicity:	1,	1,		1,	1,		1,	1,
No effects known.	1							
Specific target organ system					,		;	
No effects known.	٠.	: "	:	4.	: ' '	:		: ' '
Specific target organ system							i	

No effects known.

Aspiration nazard:		1,	1,		1,	1,		1,	1,		
No effects known.											
Subacute to chronic tox	icity:				`: -						
The Registry of Toxic E					-		_		-		
this substance.	٠								;		
Additional toxicological											
To the best of our knowledge the acute and chronic toxicity of this substance is not fully known.											
The substance is not subject to classification.											
Carcinogenic categories	s	1	! ' '	, :	1	111	, ;	1	!''		
OSHA-Ca (Occupationa	al Safety	y & Health	Admin	istratio	n) : ,	1,	1	1,	1,	٠.,	
Substance is not listed.		`:			1			1		: .	
SECTION 12. ECOLOGICAL INFORMATION											
Toxicity		1,	1,	1	1.	1,	1.,	1,	1,	٠	
Aquatic toxicity:		1			1			1			
No data available											
Persistence and degrad	lability	1	111	, ;	·:	111	.:	·:		.:	
No data available											
Bioaccumulative potent	ial	1.	· ,		·,	i,		·,	·,		
No data available	: .	1			1	1 1		1			
Mobility in soil											
No data availableAddition	onal eco	ological inf	ormatic	on:	1	: ' '	.:	1	: ' '	.1	
Not known to be hazard	lous to	water.			1,	1,		1,			
Do not allow material to	be rele										
environment without off	icial per	mits.			1			`:			
Avoid transfer into the e	environn										
Results of PBT and vPv	/B asse	ssment	! ' '	. 1	1	: ' '	. :	`:	: '	. :	

PBT: approximate the second of the second of

N/A	1,	
vPvB:		
N/A		
Other adve	erse effects	6

No data available

SECTION 13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Recommendation

Smaller quantities can be disposed of with household waste.

Consult official regulations to ensure proper disposal.

Uncleaned packagings:

Recommendation:

Disposal must be made according to official regulations.

SECTION 14. EXPOSURE CONTROLS/PERSONAL PROTECTION

UN-Number

DOT, ADN, IMDG, IATA

N/A

UN proper shipping name

DOT, ADN, IMDG, IATA

N/A

Transport hazard class(es)

DOT, ADR, ADN, IMDG, IATA

Class

N/A

Packing group

DOT, IMDG, IATA		1,	1,		1,	1		1,	1
N/A									
Environmental hazards:		·:			`:			i:	
N/A Special precautions for u	user	1	:''	.;	4	: ' '	.;	4	; ' '
N/A *, *,	٠.,	1,			1,	1,		1,	:.
Transport in bulk accord								1	
Transport/Additional info	.;	`: 						1:	
Marine Pollutant (DOT):	1	1,	1,		1,	1,	1	1.	:.
No ltem:		1:	: '		1:	: '		`:	
UN "Model Regulation"		1	111	.:	1		J	1	: ' '
1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1	1	:,	1,	1	1,	1,	1	1,	:.
SECTION 15. R	EGU	LATO	RY I	NFO	RMATI	ION		4	
Safety, health and enviro	onment	tal regulat	ions/le	gislatior	n specific f	or the s	substan	ce or mixt	ure
National regulations	, ;	1	: ' '	.:	1	: ' '	.:	·:	: ' '
All components of this p	roduct	are listed	in the l	J.Ş. En	vironment	al Prote	ection A	gency Tox	ĸic
Substances Control Act	Chemi	cal substa	ance Inv	ventory.		,		,	
All components of this p	roduct	are listed	on the	Canadi	an Domes	stic Sub	stances	s List (DSL	_)'-
SARA Section 313 (spec	cific tox	ic chemic		- /					
Substance is not listed.	,;	`:	!''	.:	`:	111	.:	1	; ' '
California Proposition 65	5 '		1,	٠		1,		1,	:,

Prop 65 - Developmental toxicity, female

Prop 65 - Developmental toxicity

Substance is not listed.

Substance is not listed.

Prop 65 - Chemicals known to cause cancer

Substance is not listed.

Prop 65 - Developmental toxicity, male

Substance is not listed.

Information about limitation of use:

For use only by technically qualified individuals.

Other regulations, limitations and prohibitive regulations

Substancot listed.

Chemical safety assessment:

A Chemical Safety Assessment has not been carried out of Very High Concern (SVHC) according to the REACH Regulations (EC) No. 1907/2006.

Substance is not listed.

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.

Annex XIV of the REACH Regulations (requiring Authorisation for use)

Substance is not listed.

Chemical safety assessment:

A Chemical Safety Assessment has not been carried out.

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.