

SAFETY DATA SHEET

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SECTION 1. IDENTIFICATION

Product Name: Boron Nitride Tube

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

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rials Identification System)HEALTH	
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= 0	
nd vPvB assessment	
nd vPvB assessment	

N/A

CAS No. / Substance Name:

10043-11-5 Boron nitride

Identification number(s):						:		
EC number:								
233-136-6		, ;	;				;	
	: "		100			1	:"	
SECTION 4. FIRST AII	D MEAS	URE	S					
Description of first aid measures	1		:	;		:'	1	
General information								
No special measures required.				: ' '				
If inhaled:								
Seek medical treatment in case of	complaints.		:	٠٠,				
In case of skin contact:								
Wash with water and soap and rins	se thoroughl	у.						
Generally the product does not irrit	ate the skin	. ;	1	: ' '		1	: ' '	
In case of eye contact:								
Rinse opened eye for several minu	ıtes under ru							
If swallowed:	:		;	;		;	;	
Drink lots of water.								
Induce vomiting if patient is conscionated	ous.		1	: "		1	: ' '	
Information for doctor			:					
Most important symptoms and effe						;		
No data available	}		:			;	:	
Indication of any immediate medica	al attention a	and spe	cial trea	tment ne	eded			
No data available	:**		100	: ' '		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.

SECTION 7. HANDLING AND STORAGE

Handling

Precautions for safe handling

See Section 13 for disposal information

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) No data available 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: None. Additional information:

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

Exposure controls

Personal protective equipment

No data

Keep container tightly sealed.

Breathing equipment:	,	:"	,	,	,	,	,	,	,	,
Not necessary if room i	is well-	ventilated	d							
In case of brief exposu	re or lo	w pollutio	on use re	espirato	ory filter o	device. Ir	n case	of intensi	ive or lon	ger
exposure use respirato	ry prot	ective de	vice that	t is inde	ependent	of circul	ating a	ir.	• •	
Not required.			:			:		, .	:	
Recommended filter de					,		,	,	,	
Filter P1		1	: ' '			111				
Protection of hands:										,
Protective gloves.		:	٠٠.						• • •	
Not required.		:			;			;		
Penetration time of glo	ve mate	erial (in m	ninutes)							
No data available			: ' '							
Eye protection:										
Safety glasses		:		111	i		111	i		
Body protection:		: '	;		;	:		;'	;	
Protective work clothing	g.									
<u> </u>			111			111			111	
SECTION 9. PI	HYSI	CAL	AND	CHE	MICA	L PRO	OPEI	RTIES	•	
Information on basic ph			,			,		,		

Information on basic physical and chemical propertie	es
Appearance:	

Form:

Solid in various forms

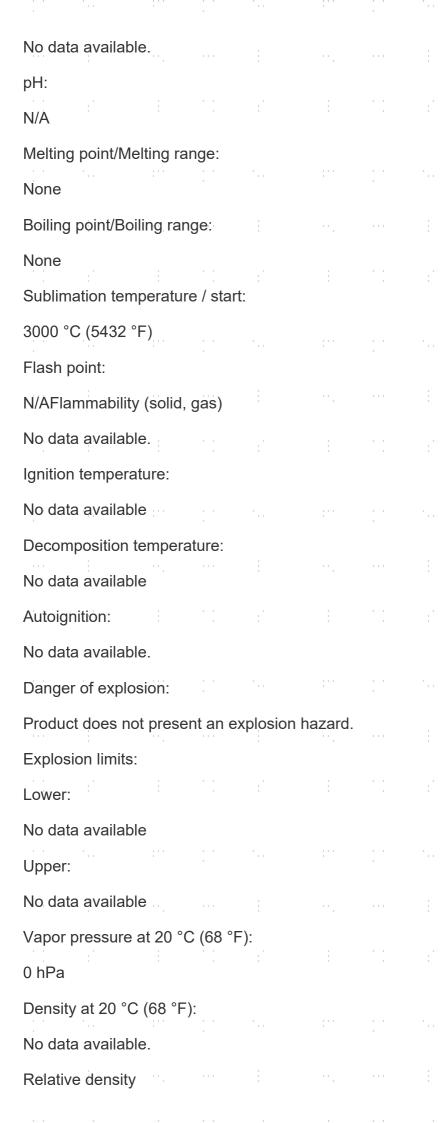
Color:

White

Odor:

Odorless

Odor threshold:



No data avallable	•			• • •							
Vapor density											
N/A			:	:		:	!		;	:	
Evaporation rate N/A	;**		100	: ' '		1	111		4		
Solubility in / Misc	cibility	with	:	• • •					:		
Water: Insoluble	:		ŧ'	:	• :	ŧ'	!	• :	:'	:	
Partition coefficier	nt (n-o	ctanol	/water):	111			:**		4		
No data available		,			·			·			
Viscosity:	٠٠,		;	٠٠,		1	٠٠,		:		
Dynamic:	;		:	1	. :	;	;		:'	:	
N/A											
Kinematic:	: ' '			: ' '			: ' '		1	: "	
N/A											
Other information			:				***		:		
No data available			:'	1		: '	-		:'	1	
11 14									٠		
SECTION 1							VITY		;		
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	;			;			;	
Incompatible materials:								
Oxidizing agentsHazardous de	compo	sition pro	ducts:	i i	:		i i	
Nitrogen oxides								
Boron oxide	'	:			1			; ' '
	:			:			:	
OFOTION 44 TOYIO				I C O D I		201	:	:
SECTION 11. TOXIC	OLO	JGICA	AL IN	IFORI	VIATIO	אכ		
Information on toxicological effe	ects	: ' '						
Acute toxicity:								
The Registry of Toxic Effects of	f Chem	ical Subs	stances	(RTECS	S) contai	ns acut	e toxicity	data for
components in this product.	:	;		; '			;	1
LD/LC50 values that are releva	nt for o	classificat	ion:					
No data		: ' '	1 1	1			1	: ' '
Skin irritation or corrosion:								
No irritant effect.	i				**,		i	**,
Eye irritation or corrosion:	;	:		;	1		:	1
No irritant effect.								
Sensitization:		: "						: ' '
No sensitizing effects known.				;			;	
Germ cell mutagenicity:								
No effects known.	;	:		: '	;		:	
Carcinogenicity:								
EPA-I: Data are inadequate for	an ass	sessment	of hum	nan carci	nogenic	potenti	al.	: ' '
Reproductive toxicity:	;			;			;	
No effects known.								
Specific target organ system to					:	,	:	:
No effects known.								
Specific target organ system to					,	,		

No effects known.

Aspiration hazard:	;						;		
No effects known.									
Subacute to chronic toxicity:	: '	:		:	:		:	:	
The Registry of Toxic Effects of									data
this substance.	;			:			:		
Additional toxicological information		,		,			,	,	
To the best of our knowledge t	the acute	and ch	ronic to	xicity of	this subs	tance i	s not full	y known.	
The substance is not subject to									
Carcinogenic categories	1	: ' '		1	: "		1	111	
OSHA-Ca (Occupational Safet	ty & Hea	Ith Admi	inistratio	on)			:		
Substance is not listed.	:	1		:			;'		
SECTION 12. ECOL					IION				
•									
Aquatic toxicity: No data available	:	:	. :	: '	:		: '		
Persistence and degradability No data available					1				
	:	• • •		:			:		
No data available	: '	:		:			:	:	
Mobility in soil									
No data availableAdditional ed	cological	informa	tion:	٠				: "	
Not known to be hazardous to	water.								
Do not allow material to be rele	eased to			;			;	''.	
environment without official pe	ermits.	;		; '	;		: '	:	
Avoid transfer into the environ	ment.								
Results of PBT and vPvB asse	essment	: ' '		1	: "		1	: "	
PBT:				;					

N/A	:		 :		 :		
vPvB: N/A	±"	;	 : '	:	 :	:	 : '
	idverse e	: ' '	 *		 4	:"	 ٠
	a avallab						

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			,						
N/A									
Environmental hazards	:	; '	;		; '			:'	
N/A									
Special precautions for	user	'				; ' '		'	; , ,
N/A :		:			1			;	
Transport in bulk accord	ding to					the IBC	Code		:
N/A	,	i	;	,	i	i		i	i
Transport/Additional inf	ormatio	on:	: ' '			111	1 1		
DOT	,								
Marine Pollutant (DOT)	:				!			:	
No.		:	;		;	;		;	:
Item:									
UN "Model Regulation"		٠						1	
		:	•••		:				
SECTION 15. R									
OLOTION 15. IV	LOC		OI	II (I)	, i ziai			:'	
Safety, health and envii		Ū		•	•				
National regulations			: ' '			: ' '		1	: ' '
All components of this p	oroduct	t are list	ed in the	U.S. E	nvironme	ental Pro	tection .	Agency	Toxic
Substances Control Act	t Chem	ical sub	stance Ir	nventor	y.				
All components of this p	oroduct	t are list	ed on the	e Canad	dian Don	nestic Su	bstance	es List (D	OSL).
SARA Section 313 (spe				• /					
Substance is not listed.		٠	111			!''	: '		: ' '
California Proposition 6	5	;			;			:	
Prop 65 - Chemicals kn	own to	cause	cancer	, ,					
Substance is not listed.	,	:	:	1	:	1		:	;
Prop 65 - Development	al toxic	eity							

Substance is not listed.

Prop 65 - Developmental toxicity, female

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 e 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.