

# SAFETY DATA SHEET

<b>DN 1. ID</b> ame: Boron I 043-11-5	<b>ENTIFIC</b>			:					
<b>DN 1. ID</b> ame: Boron I 043-11-5	ENTIFIC	ATION				.:			.:
ame: Boron I 043-11-5	Nitride Powde								
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043-11-5				· · ·		1	1		1.1
dentified use	es of the sub	stance: S	Scienti	fic resea	rch and	develo	opment		
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A H319 Caus	ses serious ey	e irritatior	1.						
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Hazard pictograr	ns			· · .			· · .			· · .		
GHS07												
Signal word: Wa	rning				. :							
Hazard statemer	its											
H319 Causes se	rious e	ye irrita				1.0			1			
H335 May cause	respira	atory ir	ritation.P	recautior	nary st	atements	· · .			11		
P261 Avoid brea	thing d	ust/fun	ne/gas/mi	st/vapor	s/spra	ý.			:			
P280 Wear prote	ctive g	loves/p	protective	clothing	/eye p	rotection/f	ace pro					:
P305+P351+P33	8 IF IN	IEYES	S: Rinse c	autiously	/ with v	water for s	everal	minutes	s. Remove	e contac	:t	
lenses, if present	and ea	asy to	do. Contii	nue rinsi	ng.							
P304+P340 IF IN	IHALEI	D: Ren	nove victi	m to fres	h air a	nd keep a	t rest in	a posi	tion comfo	ortable f	or	
breathing.					.:							
P405 Store locke	ed up.											
P501 Dispose of	conten	nts/con	tainer in a	accordan	ice wit	h local/reg	ional/na	ational/	internatio	nal	1	·
regulations.												
WHMIS classifica	ation					н н Н	11.			112		
D2B - Toxic mate	erial ca	using a	other toxic	c effects	.:				1			1
Classification sys	stem											
HMIS ratings (sc	ale 0-4	) '	1. e.e.	;**		1 	: • •	1 	1	111	1	·
(Hazardous Mate	erials Id	lentific	ation Sys	tem)	:	1 1 1		1			:	
HEALTH	ĩ		,	,	,	,	,					
FIRE					. :			.1				-
REACTIVITY												
1		·	1		·	1	: • •	1 	1	:	1 1	÷
0	· · .	-		· · .	;		· · .	-	1 - 1 1	11. 11.	-	
1			1									
Health (acute eff	ects) =	1	1	ı	. '			. '	;		.'	:
Flammability = 0		1			1	1		1				
Physical Hazard				,								
Other hazards	· · .		н н 1	· · .		н н н	· · .		н н Н		-	
· · · · ·					I							

	T and vF	vB ass	essment	· · · .		1 - 1 1	С.,		н н н	· · · ·	1	
PBT: N/A. vPvB: N/A.		,÷			.1			.:			3	
· ·	111	·	1		·				·		·	

## SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substances				1 1							1
CAS No. / Substa			:			;		.'	8		. '
10043-11-5 Boro	n nitride	Ð,	·	: • •	·	1		1	1		·
Identification nun	nber(s):										
EC number: 233-	136-6		н н Н	· · .			11.	1	н н Н	11	

### **SECTION 4. FIRST AID MEASURES**

Description of first aid measure	S		:			:			:
If inhaled:	ı		i	1		i			i
Supply fresh air. If not breathing	g, provide	artificial	l respira	ation. Kee	p patie	nt warn	n.		.1
Seek immediate medical advice	<b>)</b> .								
In case of skin contact:	1	: * *	'	1	: ' '	<b>'</b>	1 1		<b>'</b>
Immediately wash with soap an	d water; ri	inse tho	roughly	· ·	· · .			· · .	
Seek immediate medical advice									
In case of eye contact:								1	
Rinse opened eye for several m									
If swallowed:			1		1.1.1	'			1 
Seek medical treatment.		· · · .	-		· · .		н н н	•••	-
Information for doctorMost impo				cts, both	acute a	nd dela	ayed		
No information available.			, ' , '		1	.'		1	
Indication of any immediate me	dical atter	ntion and	d specia	al treatme	nt need	led	·		•
No information available.									

#### SECTION 5. FIREFIGHTING MEASURES

Extinguishing media						1 - 1 1					
Suitable extinguishing n	nedia										
Product is not flammable	e. Use	fire-fight	ting mea	asures t	hat suit t	he surro	unding	fire.		<b>1</b>	
Special hazards arising	from th	ne subst	ance or	mixture	•						
If this product is involved	d in a f	ire, the f	ollowing	can be	e release	d:					
Nitrogen oxides (NOx)										.1	
Boron oxide											
Advice for firefighters	1	1		1 1	1		<b>'</b>	1	;**	1	
Protective equipment:		н н н	· · .		н н н	··.,			· · .		
Wear self-contained res	pirator										
Wear fully protective im	perviou	us suit.						-			

the state of the state	1		1	1		1	1	: ' '	1	
SECTION 6. ACCIDE	ENTAL	RE	LEAS	SE ME	ASU	RES		· · ·	:	
Personal precautions, protective	e equipme	ent and	emerg	ency proc	edures				.:	
Wear protective equipment. Kee	ep unprote	ected p	ersons	away.						
Ensure adequate ventilation	1	; • •	·	1	: * *	1	1	: * *	·	• .
Environmental precautions:										
Do not allow product to reach se	ewage sys	stem or	any w	ater cours	e.			11		
Methods and material for contai	nment an	d¦clear	up:							
Ensure adequate ventilation.										
Prevention of secondary hazard	IS:		1	1	: • •	1	1		1	۰.
No special measures required. Reference to other sections		··.	:	: *	· · .	1	: 1	11. 11.		
See Section 7 for information or	n safe har	ndling	.:	-			-		.1	
See Section 8 for information or	n persona	l protec	ction ec	luipment.						
See Section 13 for disposal info	ormation.		1	1 	111	1	1 	: * *	5 1	

		· · ·	· · ·			
SECTION 7. HANDLING AND STORAGE	· · .	:		· · .	÷	
Handling		.:				-
Precautions for safe handling						
Keep container tightly sealed.						
Store in cool, dry place in tightly closed containers.	· · .		н н н		-	
Ensure adequate ventilation. Information about protection against explosions and fires:				н н н	.)÷	-
The product is not flammable						
	: ' '	1	1.0	111	1	÷.,
Conditions for safe storage, including any incompatibilities						
Storage	· · ·	1	н н н	· · · ·		
Requirements to be met by storerooms and receptacles:		.:			.1	:
No special requirements.						
Information about storage in one common storage facility:		·	1		·	·
Store away from oxidizing agents.Further information about stora	ige con	ditions	:			
Keep container tightly sealed.	· · .			11		
Store in cool, dry conditions in well-sealed containers.		.1				
Specific end use(s)						
No information available.	:	1	5	111	<b>1</b>	÷
	··.	:	н н н	· · .	:	
SECTION 8. EXPOSURE CONTROLS/PER	RSO	NAL				
PROTECTION						
Additional information about design of technical systems:		1	1		<b>`</b>	÷.,

Properly operating chemical fume hood designed for hazardous chemicals and having an average

face velocity of at least 100 feet per minute.

Control parameters

Components with limit values that require monitoring at the workplace:

The product does not contain any relevant quantities of materials with critical values that should be monitored at the workplace.

Exposure controls Personal protective equipment Follow typical general protective and industrial Keep away from foodstuffs, beverages and fee Remove all soiled and contaminated clothing in Wash hands before breaks and at the end of w Avoid contact with the eyes. Avoid contact with the eyes and skin. Breathing equipment: Use suitable respirator when high concentration Recommended filter device for short term use: Use a respirator with type N95 (USA) or PE (E Risk assessment should be performed to deter use equipment tested and approved under app Protection of hands: Impervious gloves Inspect gloves prior to use. Suitability of gloves should be determined both by manufacturer. Material of gloves Nitrile rubber, NBR Penetration time of glove material (in minutes)	hygien ed. mmedia /ork. ns are N 143) mine if propriat	e measu ately. present. cartridge air-purify e govern	es as a b ying resp	andling ackup irators ndards	to engine are appr	ering cor opriate. (	ntrols. Only	
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manufacturer. Material of gloves Nitrile rubber, NBR Penetration time of glove material (in minutes)			d quality,	the lat	ter of wh	ich may v	/ary	
Material of gloves Nitrile rubber, NBR Penetration time of glove material (in minutes)	1	1		1	1	111	1	۰.
Nitrile rubber, NBR Penetration time of glove material (in minutes)								
Penetration time of glove material (in minutes)								
	. 1				1		.1	
400								
480	1 	1		·	1		1.1	۰.
Glove thickness								
0.11 mm								
Eye protection: Safety glasses								
Body protection: Protective work clothing.								
and a state of the							1.1	

· · · · ·	1 1 1			111	· · ·	1.1	1 1 1				· · ·	
SECTION	9. PH	YSI		ND (	CHEN	<b>/ICAL</b>	PRO	OPEF	RTIES	•••	1	
Information on ba	asic phy	/sical a	and chemi	cal pro	perties		н н н					
Appearance:												
Form: Powder	; • •	·	1 			1 		·	1	; • •	1	۰.
Color: White		1			1			:				
Odor: Odorless												
Odor threshold: I	No data	availa	ble.pH: N	/A.	.1							
Melting point/ran	ge: No	data av	vailable.									
Boiling point/ran	ge: No d	data av	ailable.		1	1 		<b>`</b>	1 	111	1	
Sublimation temp	perature	e / start	: No data	availat	ole.	н н н				с. С.		
Flammability (so Ignition temperat				ble.		:		.)÷	ł		.:	:
Decomposition te				ailable.								
Auto igniting: No		1	·			1	: ' '	1 	1 	111	1	۰.
Danger of explos				· · ·	-		· · .	;				
Explosion limits:						1						
Lower: No data a				1		Ĩ		1		,		
Upper: No data a	available	ə.,	·		1	1		·	·		·	· .
Vapor pressure a	at 20 °C	; (68 °F	<sup>-</sup> ): 0 hPa									
Density: No data	availab	ole.					11		н н н			
Relative density:	No dat	a availa	able.	1 - 1 1	.:	1				· · ·		
Vapor density: N	/A.											
Evaporation rate	: N/A.	·	1	1 1 1 1	·	·	: • •	·	1		1	۰.
Solubility in Wate	er (H			· · · .			1. 1.	;	1 - 1 1	•••	:	
O): Insoluble	н н н	.1	:	н н н		1	н н 1		-			
Partition coefficie	ent (n-o	ctanol/	water): No	o data a	available	Ð.						
Viscosity:	,		,				; • •	·	·	; • •	1	۰.
Dynamic: N/A.	· · ·			•••			· · ·	;		•••		:

					1			1			
Kinematic: N/A.			•••			· · .			· · .		
Other information											
No information available	ə. <sup>'</sup>	1	1	.:							
ni ni in	·	1. 	1 1 1 1	·	н. 1919 -		·	1		·	·
SECTION 10. S	TAB	BILITY		RE			;		· · · .		
Reactivity No data available.		:	, , ,		1	1 - 1 1	, i	:			
Chemical stability	·	·			·		·	·		·	
Stable under recommer	nded st	orage co	onditions	6.							
Thermal decomposition	/ cond	itions to	be avoid	ded:		· · .		н н н			
Decomposition will not o	occur if	used ar	nd store	d accor	ding to s	pecificat	ions.				
Possibility of hazardous	reactio	ons									
Reacts with strong oxid	izing a	gents	; • •	·	1 	1.11	·	1		1	
Conditions to avoid No information available	Э.	1 1 1	۰۰,	;	1 1 1	· · .			···.		
Incompatible materials:							.1				
Oxidizing agents											
Hazardous decompositi	ion pro	ducts:	111	1 	1.0	111	·	1	111	1	·
Nitrogen oxides			· · .	}	1 - 1 1		÷	1 - 1 1	· · .		
Boron oxide	. :			. :						.:	
SECTION 11. T	OXI	COLC	GIC		IFORI	ΜΑΤΙΟ	ON	·	; • •	1	·

Information on toxicological effects
Acute toxicity:
The Registry of Toxic Effects of Chemical Substances (RTECS) contains acute toxicity data for this
substance.
LD/LC50 values that are relevant for classification: No data

Skin irritation or corrosion: May cause irritationEye irritation or corrosion: Causes serious eye

			1 1 1	1.1		1					· · ·
irritation.			· · .			•••					
Sensitization: No			known.								
Germ cell mutage	enicity: N//	Ą		. 1			.1				
Carcinogenicity:											
EPA-I: Data are i			ssessmen							<b>'</b>	· · ·
Reproductive tox	icity: N/A	н н н	· · .		н н н	· · .		1 - 1 1	··.,		
Specific target or	gan syste	m toxicity	- repeated	d expos	ure: N/A			;			
Specific target or	gan syste	m toxicity	- single ex	xposure	e: May cau	use resp	oiratory	irritation		ı	
Aspiration hazard	d: N/A			·	1		·	5		·	·
Subacute to chro	nic toxicity	/:									
The Registry of T	oxic Effec	ts of Che	mical Sub	stances	(RTECS	) contaii	ns mult	iple dose	e toxicity of	data	
for			1 - 1 1	_ : _ :			.:				
this substance.											
Additional toxicol	ogical info	ormation:		1	1		1	1		1	·
To the best of ou	r knowled	ge the ac			-				-		
Carcinogenic cat	egories				1 I	· · .			11.		
OSHA-Ca (Occu	pational S	afety & H	ealth Adm	inistrati	on)		.1				
Substance is not	listed.										
1			1 I I I			1.1.1					÷.,
SECTION 1	2. EC	OLOG		NFO	RMAT	ION	1		··.		
Toxicity											
Aquatic toxicity:											
No information av	vailable.	· · · ·		1	<b>`</b>		·	1	1.1		·
Persistence and		lity:			н н н	•••	1	1 - 1 1	· · .	1	
No information av											
Bioaccumulative	potential:			. '		1	. '	1		. 1	1

No information available.

Mobility in soil: No information available.

Additional ecological ir	nformatio	on:	· · · .			· · .					
General notes:											
Avoid transfer into the	environr	ment.						1			
Results of PBT and vP											
PBT: N/A.			1			1			i i i	<u></u>	
vPvB: N/A.	-	· · ·	· · .		н н н			н н н	· · .		
Other adverse effects	:	1	1 I	1	:			;			;
No information availab		,		ı	'	'		ł	ł		
the second second	·	- 	: ' '	·	1. 		1	1	1.1.1	·	·
SECTION 13. I	ספוח	ועטר		חופו	ΕΡΛΤ		1			1	
SECTION 13.1		JOAL	CON								
Waste treatment meth	ods		н н н	. :				1	н н н		
Recommendation:											
Consult state, local or	national	regulatio	ns to e	nsure p	proper di	sposal.	1 	1.0	111	1	÷.,
Uncleaned packagings	S:		· · .								
Recommendation:											
Disposal must be mad	e accord	ling to off	icial re	gulatior	าร.						
·	5	·	; • •	·	·		·	1. 1.		·	·
SECTION 14.											
UN-NumberDOT, ADN		ΙΑΤΑ			1				· · .		
N/A				.1			.1	1		.1	
UN proper shipping na											
DOT, ADN, IMDG, IAT	Ā	1			1		<b>`</b>	1		1 	·
N/A (1000	}	1 - 1 1	· · .	1	· · ·				· · .		
Transport hazard class	s(es)			:				:			:
DOT, ADR, ADN, IMD	G, IATA		1	1	ı	1	1	ı			,
Class	·	5		·	·	1.1	·	1		·	·
N/A											
Packing group			11 A						· · .		

		· · ·			·	1		· · ·			
DOT, IMDG, IATA			· · .			· · .		н н Н	· · .		
N/A											
Environmental hazards:											
N/A.											
Special precautions for u				1	1 		1	1. 		1	·
N/A.			· · ,		н н 1	· · .		н н Н			
Transport in bulk accord						BC C	ode				
N/A.								;			
Transport/Additional info	rmation	1:		·	·		·				
DOT											
Marine Pollutant (DOT):		н н н	· · ,		1 - 1 1		-	1 - 1 1		}	
No	.:			.:							
UN "Model Regulation":											
<del>-</del>		1			1	1 1 1 1		1.		·	·
		н н н	··.,	:	1 - 1 1		:	1 - 1 1		:	
SECTION 15. R	EGU	LATO	RY II	NFO	RMAT	ION					
Safety, health and enviro	onmenta	al regulati	ons/leg	gislatior	n specific f	or the s	substar	ice or mix	ture		
National regulations	·	1		1. 	1. 	1 - 1 - 1 1	1	1	: * *	1	·
All components of this pr	roduct a	are listed i	n the L	J.S. En	vironment	al Prote	ection A	gency To	xic	:	
Substances Control Act	Chemic	al substa	nce Inv	ventory.							
All components of this p	roduct a	are listed o	on the	Canadi	an Domes	stic Sub	stance	s List (DS	L).		
SARA Section 313 (spec	cific toxi	ic chemica	al listin	gs)							
Substance is not listed.	'	1			1		1 1	1	111	1 1	÷.,
California Proposition 65	5	н н н	· · .		1 - 1 1	· · .			· · .		
Prop 65 - Chemicals kno	own to c	ause can									
Substance is not listed.			1	. '		1	.1		1		

Prop 65 - Developmental toxicity Substance is not listed.

Prop 65 - Developmental toxicity, female

		· · ·	·	1 1 1	· · ·	1		· · ·	1			
	Substance is not list	ed.			-	н н Н				· · .		
	Prop 65 - Developm	ental toxic	itv male									
	Substance is not list	ed.										
	Information about lir	nitation of										
	For use only by tech	nically qua				1 1		'	1	: • •	1 	·
	Other regulations, li	mitations a	ind prohibi	tive reg	ulation	S	· · .	1	н н н	· · .		
	Substance of Very H	ligh Conce	ern (SVHC	) accor	ding to	the REAC	CH Reg	ulations	s (EC) No.	. 1907/2	006.	
	Substance is not list	ed.	:		. '			.'				
	The conditions of re	strictions a	according t	o Article	e 67 ar	nd A		·	·		·	
	nnex XVII of the Reg	gulation (E	C) No 190	7/2006	(REAC	CH) for the	e manuf					
	acturing, placing on	the	н н Н	· · .		н н Н	· · · .		н н Н	· · .	-	
	market and use mus	st be obser	ved.		.:			.:				
Substance is not listed.Annex XIV of the REACH Regulations (requiring Authorisation for use)												
	Substance is not list	ed.	1		1	1		·	1		1	·
	Chemical safety ass A Chemical Safety A		t has not	heen or		 t	· · ·	;	1 1 1	· · .		
	A Chemical Salety F											

#### **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.