

SAFETY DATA SHEET

 Revision Date
 18-Feb-2020
 Revision Number
 2

		1.1	denti	ficatio	n					¹ ا
Product Name	Chromi	um bo	ride							
Cat No. :	12570									
CAS-No Synonyms	12007-16 No inform	ation av	ailable				•••			
Recommended Use Uses advised against	Laborator Food, dru	y chemic	cals. ide or bio	ocidal produ	ict use.					
Details of the supplier of the safe	ty data sheet		1			1		11	1	. '
Company Stanford Advanced Materials Address : 23661 Birtcher Dr., Lake Forest, CA 92630 U.S.A. Tel: (949) 407-8904 Fax: (949) 812-6690	1			·			5 1			·.
Emergency Telephone Number (949) 407-8904		;**	11. 1	11. 1		· · .			··.,	
This telephone number is available		-	• • •						· .	.'

2. Hazard(s) identification

Classification

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

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	Skin Sensitizatio Carcinogenicity	on , , ,			Category 1 Category 1A		1				
	Label Elements	<u>i</u>									J
	Signal Word Danger	• •	 1	 	5. C			1	· · ·		`
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Chromium boride				111				Revisi	on Date 18	8-Feb-202
	÷		·	:-1	<u>;</u> +-			<u>;</u> 1.		:-1
	:•1			::1	4.	:	:::			::1
Precautionary Stateme Prevention Obtain special instructio		use			et.			::1	E	11
Do not handle until all sa Use personal protective Avoid breathing dust/fun Contaminated work cloth Wear protective gloves Response	equipmer ne/gas/mi	nt as require st/vapors/sp	ed pray	: • :			:::			:::
IF exposed or concerned Skin IF ON SKIN: Wash with	plenty of	soap and w	ater	:•1	4.	;••			;	:::
If skin irritation or rash o Wash contaminated clot			dvice/attent	ion	:::	÷				11
Store locked up Disposal Dispose of contents/con <u>Hazards not otherwise</u> Very toxic to aquatic life	classifie with long	d (HNOC) lasting effe	cts				:::			
Store locked up Disposal Dispose of contents/con <u>Hazards not otherwise</u> Very toxic to aquatic life	classifie with long Reproduc	ed (HNOC) lasting effective Harm -	cts https://www	w.p65war	nings.ca.gov/.					
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Store locked up Disposal Dispose of contents/con Hazards not otherwise Very toxic to aquatic life WARNING. Cancer and	classifie with long Reproduce 3.	d (HNOC) lasting effective Harm -	cts https://www cosition/	w.p65war /Inforn	nings.ca.gov/. nation or CAS-No	ייי וח Ingre		ts W		
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Store locked up Disposal Dispose of contents/con Hazards not otherwise Very toxic to aquatic life WARNING. Cancer and Chromium General Advice	classifie with long Reproduce 3.	d (HNOC) lasting effective Harm - Compo CrB2)	cts https://www osition/ 4. Fir	w.p65war /Inforn sist, call a ly with ple	nings.ca.gov/. nation or CAS-No 12007-16-8 measure	es i		ts W	<=100	
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Store locked up Disposal Dispose of contents/con Hazards not otherwise Very toxic to aquatic life WARNING. Cancer and Chromium General Advice Eye Contact Skin Contact	classifie with long Reproduce 3.	ed (HNOC) lasting effective Harm - Compositive Harm - CrB2) If sym Rinse medic Wash call a Remo	A. Fir ptoms pers immediate al attention off immedia	w.p65war (Inforn sist, call a ly with ple ately with air. If not	nings.ca.gov/. nation or CAS-No 12007-16-8 measure physician. enty of water, a	er for at le	edient	lids, for at l	<=100 east 15 min kin irritation	utes. Get
Store locked up Disposal Dispose of contents/con Hazards not otherwise Very toxic to aquatic life WARNING. Cancer and Chromium General Advice Eye Contact Skin Contact Inhalation	classifie with long Reproduce 3.	ed (HNOC) lasting effective Harm - Compo CrB2) If sym Rinse medic Wash call a Remo sympt Clean	A. Fir ptoms pers immediate al attention off immedi physician.	w.p65war	nings.ca.gov/. nation or CAS-No 12007-16-8 measure physician. enty of water, a plenty of water	a Ingre es also unde er for at le e artificia	edient	lids, for at linutes. If sk	<=100 east 15 min kin irritation edical attenti	utes. Get persists, on if
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Store locked up Disposal Dispose of contents/con Hazards not otherwise Very toxic to aquatic life WARNING. Cancer and Chromium General Advice Eye Contact Skin Contact Inhalation Ingestion Most important sympto effects	classifie with long Reproduct 3. ponent boride (C	d (HNOC) lasting effective Harm - Compo CrB2) If sym Rinse medic Wash call a Remo sympt Clean sympt Clean sympt May c swellin pain, n Treat	cts https://www. DSITION/ A. Fir ptoms pers immediate al attention off immedi physician. we to fresh oms occur. mouth with coms occur. mouth with coms occur. ause allerg muscle pair symptomat	w.p65war	nings.ca.gov/. nation or CAS-No 12007-16-8 measure physician. enty of water, a plenty of water, a breathing, giv action. Sympt , tingling of the	a Ingre es also unde er for at le e artificia ards pler coms of a e hands a	edient er the eye east 15 m I respirati	lids, for at li inutes. If sk on. Get me er. Get med	<=100 east 15 min kin irritation dical attentio	utes. Get persists, on if on if

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(Chromium boride		:::			:•1		11	Rev	ision Date	9 18-Fe	eb-2020
	Suitable Extinguishing N	Vedia	Not co	ombustible.								
	Jnsuitable Extinguishin		No info	ormation av	ailable							
	Flash Point Method -	:::		ormation av ormation av					·!	: '		
	Autoignition Temperatur	re	No info	ormation av	ailable							
	Upper Lower	. :		ta available ta available		11.	. 11	. 1	11			
	Sensitivity to Mecha Sensitivity to Static I		act No info	ormation av	ailable			: • :		۰.		
	Specific Hazards Arising				ater cours	es.						
	Hazardous Combustion						: • •			: '		. • .
	Oxides of boron. Chromiu Protective Equipment ar		tions for	Firefighter	s							
	As in any fire, wear self-co protective gear.					emand, M	ISHA/NIOSH	(approve	ed or equ	ivalent) ar	nd full	::'
Ī			Elo	mmohility			Inctability			Physical h	ozorda	
	Health 2	11	FIA	mmability 0			Instability 0		, F	Physical h -	azaros	5
	Personal Precautions Environmental Precautio	ons	Ensure format Do not contan should	e adequate tion. t flush into s minate grou	ventilation surface wa	n. Use pe ater or sai system. P	measure rsonal protect nitary sewer s Prevent produc ges cannot be	ive equij ystem. E st from e	Do not all ntering d	ow materi rains. Loc	al to al autho	orities
1	Environmental Precautio	nt and Cle	Ensure format Do not contan should the en	e adequate tion. t flush into s ninate grou l be advised vironment.	ventilation surface wa nd water s d if signific	n. Use pe ater or sau system. P cant spilla	rsonal protect nitary sewer s Prevent produc ges cannot be	ive equij ystem. E st from e e contain	Do not all ntering d ed. Shou	ow materi rains. Loc uld not be	al to al autho release	orities
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	Environmental Precaution Methods for Containment Jp Handling Storage Exposure Guidelines Component Chromium boride (CrB2) Legend NIOSH IDLH: NIOSH - Nati	nt and Cle	Ensure format Do not should the en contain wear get in Keep o EXPOSI	e adequate tion. t flush into s ninate grou d be advised vironment. o up and sh ners for disp 7. Hand personal pro eyes, on sk containers t <u>ure con</u>	ventilation surface wa nd water is d if signific ovel into s posal. dling a otective e in, or on c ightly clos ntrols / OSHA	n. Use pe ater or san system. P cant spilla suitable co and st quipment clothing. A sed in a du <u>perso</u> <u>PEL</u>	rsonal protect nitary sewer s Prevent produc ges cannot be ontainers for c Orage /face protectic Avoid ingestion ry, cool and w Onal prot	ive equip ystem. E t from e contain lisposal. on. Ensu n and inf ell-ventil <u>eCtic</u> <u>SH IDLH</u> .0002 mg	Do not all ntering d ed. Shou Keep in re adequ nalation. ated plac	ow materia rains. Loc uld not be suitable, c ate ventila Avoid dust	al to al author release closed ation. D	o not

:	Chromium boride							Revision	Date	18-Feb-2020	; •
• :	Personal Protective Equipment	<u>;</u> :.	•		<u>;</u> :.			<u>.</u>			
	Eye/face Protection		s eye and					goggles as d 10.133 or Euro			
• ;	Skin and body protection	Wear a	ppropriate	e protectiv	/e gloves ar	nd clothing t	to prevent	skin exposur	e	:::	•
	Respiratory Protection	EN 149	. Use a N	IOSH/MS	SHA or Euro	pean Stand	ard EN 1	910.134 or Eu 49 approved r oms are exper	espira	tor if	: '

Hygiene Measures

Handle in accordance with good industrial hygiene and safety practice.

9. Physical and chemical properties

	7. FHYSIC		nemical properti	163				
Physical State Appearance Odor Odor Threshold pH			Solid No information available Odorless No information available No information available	;;;	d.	:··	;•:	•
Melting Point/Range Boiling Point/Range Flash Point Evaporation Rate		e e	No data available No information available No information available Not applicable		eri -	. Er	111	:"
Flammability (solid,gas) Flammability or explosive limits Upper		ei dei	No information available	:•i	<u>1</u> 1-		:-1	<u>.</u>
Lower Vapor Pressure Vapor Density Specific Gravity Solubility Partition coefficient; n-octanol/w		n ei	No data available No information available Not applicable No information available No information available No data available	:::	4.	:	ed.	•
Autoignition Temperature Decomposition Temperature Viscosity		e e	No information available No information available Not applicable		eti -			:*:
Molecular Formula Molecular Weight		d H	CrB2 73.62	:•i	<u>1</u> 1		:-:	<u>.</u>
	10. S	Stability	and reactivity					
Reactive Hazard			formation available	÷	4.		:::	· .
Stability Conditions to Avoid	Stable unde	r normal conc e products.	ditions.					:•:

Hazardous Decomposition Products Oxides of boron, Chromium oxide

Hazardous Polymerization Hazardous polymerization does not occur.

Oxidizing agent

Hazardous Reactions

Incompatible Materials

Hazardous Reactions	: ·]	None u	inder norn	nal proces	sing.	: • •	:•1	· : .	: • •	: ·]	· .
		11.	Toxic	ologia	cal info	rmatio	า				
Acute Toxicity		: 1									-
Product Information											
		· : .		:	·		:	11.			· : .

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Chromium boride							
Component Informati oxicologically Syner Products		No information	n available		99 - 19		÷
elayed and immedia	te effects as	well as chronic	effects from short a	and long-term e	xposure		
ritation		No information	available	;			
Sensitization		May cause ser	nsitization by skin co	ntact			
arcinogenicity	111	The table below	w indicates whether	each agency ha	s listed any ingredie	nt as a car	cinogen.
Component	CAS-No	IARC	NTP	ACGIH	OSHA	Me	exico
Chromium boride (CrB2)	12007-16-8	Not listed	Known	Not listed	Not listed		A1
NTP: (National Toxic Mexico - Occupation	5 0 .	imits - Carcinoger	Known - K Reasonal Carcinoge ns Mexico - (A1 - Conf A2 - Susp A3 - Conf	en Occupational Expo irmed Human Caro vected Human Caro irmed Animal Caro	easonably Anticipated osure Limits - Carcinog cinogen cinogen		ian
Autagenic Effects		No information	A5 - Not S	Suspected as a Hu			
Reproductive Effects		No information	available.				
evelopmental Effect	S	No information	available.				
eratogenicity		No information	n available.				
GTOT - single exposu GTOT - repeated expo		None known None known	et et.	:	ei di	;	:::
Aspiration hazard	11	No information	available		at et		
Symptoms / effects,b lelayed	oth acute an		allergic reaction may nd feet, dizziness, lig				
Indocrine Disruptor	nformation	No information	n available	· ·			111
Other Adverse Effects	5	The toxicologic	cal properties have n	ot been fully inve	estigated.		
1 (1) (1) (1) (1) (1) (1) (1) (1) (1) (1)		12. Ec	cological info	rmation			
Ecotoxicity /ery toxic to aquatic or substances which are h naterial to contaminate	nazardous for	the environment.					
Persistence and Degr	adability	Insoluble in wa	ater May persist				
Bioaccumulation/ Acc	cumulation	No information	n available.				
lobility		Is not likely mo	bile in the environme	ent due its low w	ater solubility.		
		13. Dis	posal consid	lerations			
Vaste Disposal Meth	ods	Chemical wast hazardous was	te generators must d ste. Chemical waste dous waste regulatio	etermine whethe generators mus	t also consult local,	regional, a	and the

Chromium boride

Revision Date 18-Feb-2020

			14. 1	Transpor	t inform	ation			
DOT		Not	t regulate	ed					
TDG		Not	t regulate	ed					
IATA		Not	t regulate	ed					
IMDG/IMO		Not	t regulate	ed					
			15. F	Regulator	y inforn	nation	11.	,	11.

United States of America Inventory

Component	CAS-No	TSCA	TSCA Inventory notification - Active/Inactive	TSCA - EPA Regulatory Flags
Chromium boride (CrB2)	12007-16-8	X	ACTIVE	· · · -

Legend:

TSCA - Toxic Substances Control Act, (40 CFR Part 710)

X - Listed

'-' - Not Listed

TSCA 12(b) - Notices of Export

Component	CAS-No	TSCA 12(b) - Notices of Export]
Chromium boride (CrB2)	12007-16-8	Section 6	

International Inventories

Canada (DSL/NDSL), Europe (EINECS/ELINCS/NLP), Philippines (PICCS), Japan (ENCS), Australia (AICS), China (IECSC), Korea (ECL).

Component	CAS-No	DSL	NDSL	EINECS	PICCS	ENCS	AICS	IECSC	KECL
Chromium boride (CrB2)	12007-16-8	-	Х	234-499-3	-	Х	-	-	KE-05984
U.S. Federal Regulations		1.1.1				11		1	

SARA 313

Component	CAS-No	Weight %	SARA 313 - Threshold Values %	: •
Chromium boride (CrB2)	12007-16-8	<=100	0.1	

SARA 311/312 Hazard Categories See section 2 for more information

CWA (Clean Water Act)

Component	CWA - Hazardous Substances	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants
Chromium boride (CrB2)		-	, · · ·	

Clean Air Act

Component	HAPS Data	Class 1 Ozone Depletors	Class 2 Ozone Depletors
Chromium boride (CrB2)	X		

OSHA - Occupational Safety and Not applicable

Health Administration

	Com	oonent		Specificall	y Regulated	Chemicals	I	Highly Haza	rdous Chemi	cals
	Chromium b	ooride (Cr	B2)		5 µg/m³ TWA Jg/m³ Action I				-	
CERCLA			Not applica	ble		111			111	

California Proposition 65 This product contains the following Proposition 65 chemicals.

Component	CAS-No	California Prop. 65	Prop 65 NSRL	Category	11
Chromium boride (CrB2)	12007-16-8	Carcinogen	0.001 µg/day	Developmental	
			•		-

Chromium boride

Revision Date 18-Feb-2020

		:::		* -) 	Develop Female Re Male Rep	productive		:-:		Carcinog	jen
	S. State Right-to-Kno egulations							•			
	Component		sachusetts	New	Jersey	Penns	sylvania	, II	linois	Rhode	Island
C	Chromium boride (CrB2) , ,	- • •		X		Х	1 1	X		
Re D	S. Department of Tra eportable Quantity (RQ OT Marine Pollutant OT Severe Marine Poll): ¹ .	ion N N N	.H·					el	.÷·	11
	S. Department of Hor ecurity	neland	This pr	oduct doe	s not conf	ain any DH	S chemical	s.			: • :
<u>O</u> 1	ther International Reg	ulations	<u>i _</u>								
M	exico - Grade		No info	rmation av	vailable			11		; • •	:::
				16. 0	ther i	nformat	ion				
Pr	repared By				ed Materi						
		: • :	Email:	sales@sa	materials	.com	14	:::			: • :
Pr	evision Date rint Date evision Summary		18-Feb 18-Feb SDS au	-2020	ystems up	odate, replac	es ChemG	Ses SDS N	No. 12007-	16-8/2	
re	ansportation, disposa lates only to the spec aterials or in any proc	ific mate	erial designa	ted and r	nay not b						
					End o	f SDS					
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