

samaterials.com

SAFETY DATA SHEET

Version 3.0 Revision Date 09/04/2017

	RODUCT AND COMPANY IE	DENTIFICATION							
1.1P	roduct identifiers								
	Product name Brand	: Lanthanum hexal	boride		. 11				. '
	CAS-No.	: 12008-21-8							
1.2	Relevant identified uses of	f the substance or mixture an	d uses adv	ised agai	nst				
	Identified uses	: Laboratory chemicals, Ma	anufacture o	of substand	ces				
1.3	Details of the supplier of the	he safety data sheet							
	Company	Stanford Advanced Materials						·	
		23661 Birtcher Dr. Lake Forest, CA 92630 USA			. * *				
	Telephone Fax	: +1 (949) 407-8904 : +1 (949) 812-6690							
1.4	Emergency telephone num	ıber							
. 1	Emergency Phone #	: +1 (949) 407-8904				1.1 ¹	111		
2. H/	AZARDS IDENTIFICATION								
2.1	Classification of the subst	ance or mixture							
	Not a hazardous substance	e or mixture.							
2.2	GHS Label elements, inclu	ding precautionary statement	ts				111		
	Not a hazardous substance	e or mixture.							
2.3	Hazards not otherwise clas	ssified (HNOC) or not covered	d by GHS -	none					
3. C	OMPOSITION/INFORMATIO								
3.1	Substances								
,	Chemical characterization Synonyms	: Product does not burn : Lanthanum boride							. • •
	Formula Molecular Weight CAS-No. EC-No.	B6La 203.77 g/mol 12008-21-8 234-531-6	1			:			
.:		ous according to OSHA criteria e disclosed according to the a					; • •	.1	'
	RST AID MEASURES			1 I					
4, FI	Department of first old may								
4. FI 4.1	Description of first aid mea	asules							
	If inhaled	n into fresh air. If not breathing	g, give artifi	cial respir	ation.	1			-

	In case of skin contact Wash off with soap and plenty of water.			. * *		. * *				. * *
	In case of eye contact Flush eyes with water as a precaution.			1						
	If swallowed Never give anything by mouth to an unc	consciou	us person	. Rinse m	outh with w	ater.				
4.2	Most important symptoms and effects, The most important known symptoms a			•	the labellin	g (see s	section 2.2) and/or in	section	[.] 11
4.3	Indication of any immediate medical needed no data available	attentio	on and sp	ecial trea	tment			1 - 1 1		
5. FIR	EFIGHTING MEASURES									
5.1 Ex	tinguishing media									
	Suitable extinguishing media Use extinguishing measures that are ap	opropria	te to loca	l circumsta	ances and t	he surro	ounding er	vironment		
5.2	Special hazards arising from the sub Borane/boron oxides, Lanthanum oxide		or mixtu	re	111		*	:**		
5.3	Advice for firefighters Wear self contained breathing apparatu	is for fire	e fighting	if necessa	ıry.					
5.4	Further information The product itself does not burn.									
6. AC	CIDENTAL RELEASE MEASURES									
6.1	Personal precautions, protective equ Avoid dust formation. Avoid breathing v For personal protection see section 8.				rocedures	.:		: • •		*
6.2	Environmental precautions Do not let product enter drains.									
6.3	Methods and materials for containment Sweep up and shovel. Keep in suitable,				osal.					
6.4	Reference to other sections For disposal see section 13.			:						
7. HA	NDLING AND STORAGE									
7.1	Precautions for safe handling Provide appropriate exhaust ventilation For precautions see section 2.2.	at place	es where	dust is for	med.				.:	'
7.2	Conditions for safe storage, including Keep container tightly closed in a dry a									
	Keep in a dry place.									
7.3	Specific end use(s) Apart from the uses mentioned in section	on 1.2 n	o other sp	becific use	s are stipul	ated				
8. EX	POSURE CONTROLS/PERSONAL							1		
	FECTION 8.1 Control parameters									
	Components with workplace control Contains no substances with occupation			t values.			. * *			
8.2	Exposure controls									
	Appropriate engineering controls General industrial hygiene practice.			1			1			1
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Personal protective equipment

Eye/face protection

Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Body Protection

Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place., The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection

Respiratory protection is not required. Where protection from nuisance levels of dusts are desired, use type N95 (US) or type P1 (EN 143) dust masks. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure

Do not let product enter drains.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

1	Info	ormation on basic physica	and chemical prop	erties							
	a) b)	Appearance Odour	Form: powder no data available		-			1			
	с)	Odour Threshold	no data available								
	,	pH	no data available								
	d)								: 11	1	
	e)	Melting point/freezing point	Melting point/range	: 2,210 °	C (4,010 °F)					
	f) , '	Initial boiling point and boiling range	no data available				11				. * *
	g) ,	Flash point	not applicable								
	h)	Evapouration rate	no data available								
	i)	Flammability (solid, gas)	no data available								
	j)	Upper/lower flammability or explosive limits	no data available		'		1				'
	k)	Vapour pressure	no data available								
	I) ^{''}	Vapour density	no data available								
	m)	Relative density	2.61 g/cm3 at 25 °C	C (77 °F)							
	n)	Water solubility	no data available						111		
	o)	Partition coefficient: n- octanol/water	no data available								
	p) , ,	Auto-ignition temperature	no data available	3		;**			;	.:	'
	q)	Decomposition	no data available								
	'	temperature									. 11
	r)	Viscosity	no data available								
	s)	Explosive properties	no data available								
	t)	Oxidizing properties	no data available								
										Page 3 of	6

						'			'			'
9.2	Other safe no data av	ety information vailable		• •		. * *		.**		• •	. **	
10. S		AND REACTIVIT	Y	. **								
10.1	Reactivity no data av											
10.2	Chemical Stable un	stability der recommende	d storage c	conditions.	, i		;**			;**	.:	
10.3 , ^{, , ,}	Possibility no data av	y of hazardous re vailable	actions									
10.4	Condition	s to avoid vailable										
10.5	•	ble materials idizing agents				:			:			1
10.6	Other deco	s decomposition omposition produc ent of fire: see sec	ts - no data	available	.÷	'	:**	.1	'	:	.:	
11. T	OXICOLOG	BICAL INFORMA	TION									
11.1		on on toxicologic	al effects									
	Acute tox no data av					:			÷			1
	Inhalation	: no data availabl	е									
	Dermal: n	o data available										
	no data a	vailable										
	Skin corr no data av	osion/irritation vailable										
	Serious e no data av	eye damage/eye vailable	irritation					,		,		
	Respirato no data av	ory or skin sensi vailable	tisation	. * *								
	Germ cel no data av	I mutagenicity vailable				'						
. '	Carcinog	enicity		,	. '			. '				
	IARC:	No component as probable, po						qual to 0	.1% is ider	ntified		
	ACGIH:	No component a carcinogen o					than or e	qual to 0	.1% is ider	ntified as		;
	NTP:	No component a known or ant				els greater	than or e	qual to 0	.1% is ider	ntified as		i
	OSHA:	No component a carcinogen o	of this pro r potential	duct prese carcinoger	nt at lev n by:OSI	els greater HA.	than or e	qual to 0	.1% is ider	ntified as		
	Reproduce no data av	ctive toxicity vailable										
	no data av	vailable										
		target organ toxi	city - sing	le exposu	re							
	no data a	vailable		. 11								
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	Specific target organ toxic no data available		•								
	Aspiration hazard no data available	-			÷						
	Additional Information RTECS: Not available										
	To the best of our knowledg thoroughly investigated.	e, the che	emical, phy	vsical, an	id toxicologic	al prope	rties hav	e not beer	1	. 1	
2. E(COLOGICAL INFORMATION										,
2.1	Toxicity no data available										
2.2	Persistence and degradabil no data available	ity									
2.3	Bioaccumulative potential no data available								: • •		
2.4	Mobility in soil no data available										
2.5	Results of PBT and vPvB as PBT/vPvB assessment not a			al safety				conducted			
2.6	Other adverse effects										
	no data available										
3. DI	SPOSAL CONSIDERATIONS										
3.1 V	Vaste treatment methods										
	Product Offer surplus and non-recyc	lable solu	itions to a l	icensed	disposal cor	npany.					
	Contaminated packaging Dispose of as unused produ	ict.			:			:			
4. TI	RANSPORT INFORMATION	1			1	1					
	DOT (US) Not dangerous goods										
	IMDG Not dangerous goods		1			1					
	IATA Not dangerous goods				.''					11	
5. R	EGULATORY INFORMATIO	N	1			· · ·					
	SARA 302 Components SARA 302: No chemicals in	this mate	erial are su	biect to t	the reporting	reauirer	nents of	SARA Title	e III. Secti	ion 302.	
	SARA 313 Components SARA 313: This material do the threshold (De Minimis) r	es not co	ntain any c	chemical	components	s with kn	own CAS	S numbers	111	1	
	SARA 311/312 Hazards No SARA Hazards	op or			,	· · ·	, ' '				
	Massachusetts Right To K			ts Right	to Know Act						
	INO COMPONENTS are subject										
	No components are subject			to ragin		-				Page 5	of 6

	-	ania Righ Im hexabo		ow Compo	nents			CAS-No. 12008-21-8		Revisio	n Date		
	1			•				12008-21-8					
		im hexabo		/ Compone	ents			CAS-No. 12008-21-8		Revisio	n Date		
	Californi This proc	a Prop. 6	5 Comp		emicals kn	own to S	state of 0	California to ca	ause ca	ancer, birtl	n defects, d	or any	
. • •													. '
16. C	THER INF	ORMATIC	ON	:						:			:
		azard: Health Ha	zard:	0			i						
.:	Flammab Physical	Hazard		0 0					1	1. ¹		.:	
	NFPA Ra Health ha Fire Haza Reactivity	azard:		0 0 0				1 I				. * *	. '
	This mat Advance	d Materia	y data sl Is provid		anties, eitl	her expre		tion, considerand					:
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