

samaterials.com

SAFETY DATA SHEET

Version 3.0 Revision Date 09/04/2017

								07/01/	2017
1. PF	RODUCT AND COMPANY ID	ENTIFICATION			· · · .		1.1.1	· · · .	
1.1Pi	roduct identifiers								
	Product name Brand	: Lanthanum hexa : SAM	boride			· · .			۰.
	CAS-No.	: 12008-21-8							
1.2	Relevant identified uses of	the substance or mixture an	d uses adv	ised agair	nst				
	Identified uses	: Laboratory chemicals, Ma	anufacture c	of substand	es				
1.3	Details of the supplier of the	ne safety data sheet							
	Company	Stanford Advanced Materials		ł	•••		ł		
		23661 Birtcher Dr. Lake Forest, CA 92630 USA				· · ·			· · .
. * *	Telephone Fax	: +1 (949) 407-8904 : +1 (949) 812-6690			. * *				
1.4	Emergency telephone num	ber							
	Emergency Phone #	: +1 (949) 407-8904	1	1.1.1			111	· · .	
2. H/	AZARDS IDENTIFICATION								
2.1	Classification of the substa	ance or mixture	11. 1			· · .			· · · .
	Not a hazardous substance	e or mixture.							
2.2	GHS Label elements, inclu	ding precautionary statemen	ts		1	11	:		
	Not a hazardous substance	e or mixture.							
2.3	Hazards not otherwise clas	sified (HNOC) or not covered	d by GHS -	none					
3. CO	OMPOSITION/INFORMATIO	N ON INGREDIENTS							
3.1	Substances								
	Chemical characterization Synonyms	Product does not burnLanthanum boride	11			· · ·	1		· · .
	Formula Molecular Weight CAS-No. EC-No.	: B6La : 203.77 g/mol : 12008-21-8 : 234-531-6		:			:	, 1 , 1 , 1 , 1	
۰۰,		bus according to OSHA criteria disclosed according to the a		gulations.	···,			11	
4. FI	RST AID MEASURES								
4.1	Description of first aid mea	asures			1			1	
	If inhaled If breathed in, move persor	n into fresh air. If not breathing	g, give artifi	cial respir	ation.		:1		
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	In case of skin contact Wash off with soap and plenty of water.			11.			· · · .
	In case of eye contact Flush eyes with water as a precaution.	:1			e e e		
	If swallowed Never give anything by mouth to an unconscious person. Rinse mouth	n with w	ater.				
4.2	Most important symptoms and effects, both acute and delayed The most important known symptoms and effects are described in the	labellir	ng (see s	ection 2.2) and/or in	section	11
4.3	Indication of any immediate medical attention and special treatment needed no data available	ent		··			· · .
5. FIF	REFIGHTING MEASURES						
5.1 E	xtinguishing media	1	. 1	. 1	1	. '	
	Suitable extinguishing media Use extinguishing measures that are appropriate to local circumstance	es and t	the surro	ounding er	vironment		
5.2	Special hazards arising from the substance or mixture Borane/boron oxides, Lanthanum oxides		··.		111	11	
5.3	Advice for firefighters Wear self contained breathing apparatus for fire fighting if necessary.			· · .		1 - 1 1	· · · .
5.4	Further information The product itself does not burn.						
6. AC	CIDENTAL RELEASE MEASURES						
6.1	Personal precautions, protective equipment and emergency proc	edures					
•••.	Avoid dust formation. Avoid breathing vapours, mist or gas. For personal protection see section 8.	; · ·	· · .			11	
6.2	Environmental precautions Do not let product enter drains.			· · .			· · .
6.3	Methods and materials for containment and cleaning up Sweep up and shovel. Keep in suitable, closed containers for disposal	- ,,					
6.4	Reference to other sections For disposal see section 13.			1	ī		
7. HA	NDLING AND STORAGE						
7.1	Precautions for safe handling Provide appropriate exhaust ventilation at places where dust is formed		· · .			111	
	For precautions see section 2.2.			· · · .			
7.2	Conditions for safe storage, including any incompatibilities Keep container tightly closed in a dry and well-ventilated place.						
	Keep in a dry place.						
7.3	Specific end use(s) Apart from the uses mentioned in section 1.2 no other specific uses ar	e stipul	lated				
8. EX	POSURE CONTROLS/PERSONAL		11			· · · ·	
PRO	TECTION 8.1 Control parameters						
	Components with workplace control parameters Contains no substances with occupational exposure limit values.			11.			11
8.2	Exposure controls						
. '	Appropriate engineering controls General industrial hygiene practice.	:	. '	. '		_	. '
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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

a)	Appearance	Form: powder								
b)	Odour	no data available						:		
C)	Odour Threshold	no data available								
d)	pH	no data available								
e)	Melting point/freezing point	Melting point/range	e: 2,210	°C (4,010)°F)	••••			••••	
f) • •	Initial boiling point and boiling range	no data available		· · .	111		11.	. 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	···.			· · .			· · .	
k)	Vapour pressure	no data available								
)	Vapour density	no data available		11.			· · ·			
m)	Relative density	2.61 g/cm3 at 25 °	C (77 °F	-)						
n)	Water solubility	no data available						1		
0)	Partition coefficient: n- octanol/water	no data available								
p)	Auto-ignition temperature	no data available	11		:**	11		;**	11	
q)	Decomposition temperature	no data available		· · .			· · .			· · .
r)	Viscosity	no data available								
s) ,	Explosive properties	no data available	1.1							
t)	Oxidizing properties	no data available	ž							
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					· · · .			· · · .			· · ·	
9.2	Other safe no data av	ety information	11			···.			· · .			· · .
10. ST		AND REACTIVIT	Y									
10.1	Reactivity											
10.2	Chemical Stable une	stability der recommended	d storage o	conditions.	· · .		:**	· · .		:**	· · .	
10.3	Possibility	y of hazardous re vailable	actions									
10.4	Condition no data av	s to avoid			,	,		,				
10.5	Incompati	ble materials idizing agents										
10.6	Other deco	s decomposition omposition product ant of fire: see sec	ts - no data	a available	· · ·			· · .		1 1 1 1	· · .	
11. TC	DXICOLOG	ICAL INFORMA	TION									
11.1	Informatio	on on toxicologica	al effects			· · ·			•••			
	Acute tox no data av			e ^r			e ^r			÷.		
	Inhalation	: no data availabl	е									
	Dermal: n	o data available										
11	no data av	vailable		111	· · · .		:	11		111	· · · ·	
	Skin corr no data av	osion/irritation vailable										
	Serious e no data av	eye damage/eye vailable	irritation									
	Respirato	ory or skin sensi vailable	tisation	÷.			e ^r			÷		
	Germ cel no data av	l mutagenicity vailable										
11.	Carcinog	enicity			11.			11.			11.	
	IARC:	No component as probable, po						qual to 0	.1% is ide	ntified		
	ACGIH:	No component a carcinogen o					than or e	qual to 0	.1% is ide	ntified as		
	NTP:	No component a known or ant				els greater	than or e	qual to 0	.1% is ide	ntified as		
	OSHA:	No component a:carcinogen o					than or e	qual to 0	.1% is ide	ntified as		
	Reproduce no data av	ctive toxicity		5				,			,	
	no data av	1	11.			· · · .			11			11.
	Specific t	target organ toxi	city - sing	le exposi	ıre							

Specific target organ toxicity - repeated exposure no data available

Aspiration hazard no data available

Additional Information

RTECS: Not available

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

12. E	COLOGICAL INFORMATION	· · .			11			1 T.			
12.1	Toxicity no data available										
12.2	Persistence and degradability no data available	,	1	1			i i				
12.3	Bioaccumulative potential no data available		: • •	· · .	. :					· · .	
12.4	Mobility in soil no data available										
12.5	Results of PBT and vPvB ass PBT/vPvB assessment not av			al safety	assessme	ent not requ	uired/not	conducted	t.		
12.6	Other adverse effects	2	e e e	(1,1)	19	:	11		:	(1,1)	
	no data available										
13. D	ISPOSAL CONSIDERATIONS										
13.1 \	Waste treatment methods			· · ·			· · ·			· · ·	
	Product Offer surplus and non-recycla	ble solut	ions to a	licensed	disposal c	company.					
	Contaminated packaging Dispose of as unused product	• ,									
14. T	RANSPORT INFORMATION	.'									
	DOT (US) Not dangerous goods										
· · .	IMDG Not dangerous goods			· · .							
	IATA Not dangerous goods	· · ·			· · ·			···,			
45.0											
15. K	EGULATORY INFORMATION SARA 302 Components SARA 302: No chemicals in th	nis mate	rial are su	bject to	the reporti	ng requirer	nents of	SARA Tit	e III, Secti	on 302.	
· · · .	SARA 313 Components SARA 313: This material does the threshold (De Minimis) rep								that exce	ed	
	SARA 311/312 Hazards No SARA Hazards				,	,		· · .	. * *		
	Massachusetts Right To Kn No components are subject to				to Know A	Act.			e ^r		. •

	-	m hexabo		ow Compo				CAS-No. 12008-21-8		Revisior	n Date		
	New Jers	ey Right 1	Fo Knov	v Compone	ents						1		
	Lanthanu	m hexabo	ride					CAS-No. 12008-21-8		Revisior	n Date		
	California This prod other repr	uct does i	not cont		emicals kn	own to S	state of C	California to c	ause ca	incer, birth	i defects, c	or any	
							· · · .	111					
0	THER INFO		DN		Ľ			:					
	Health ha Chronic F Flammab	zard: lealth Haz	zard:	0									
	Physical I	Hazard	· · · ·	0		11.			· · .			· · · ·	
	NFPA Ra Health ha	zard;		0,,,,			· · .			· · .			
	Fire Haza Reactivity			0									
	Fire Haza Reactivity Further in This mate Advanced	⁷ Hazard: n formatic erial safet d Material	y data s s provid	0 heet is offe	anties, eitl	her expre		ion, consider plied, and as					
	Fire Haza Reactivity Further in This mate Advanced	⁷ Hazard: n formatic erial safet d Material	y data s s provid	0 heet is offe les no warr	anties, eit contained	her expre	ess or im						
	Fire Haza Reactivity Further in This mate Advanced	⁷ Hazard: n formatic erial safet d Material	y data s s provid	0 heet is offe les no warr	anties, eit contained	her expre d herein.	ess or im	plied, and as					
	Fire Haza Reactivity Further in This mate Advanced accuracy	Hazard: nformatic erial safet d Material or comple	y data s s provid eteness	0 heet is offe les no warr of the data	anties, eitl contained	her expre	ess or im	plied, and as	sumes	no respon	sibility for t	the ····	
	Fire Haza Reactivity Further ii This mate Advanced accuracy	Hazard: nformatic erial safet d Material or comple	y data s s provid eteness	0 heet is offe les no warr of the data	anties, eith contained	her expre	ess or im	plied, and as	sumes	no respon	sibility for t	the	
	Fire Haza Reactivity Further in This mate Advanced accuracy	Hazard: nformatic erial safet d Material or comple	y data s s provid eteness	0 heet is offe les no warr of the data	anties, eith contained	her expre	ess or im	plied, and as	sumes	no respon	sibility for t	the 	
	Fire Haza Reactivity Further ii This mate Advanced accuracy	Hazard: nformatic erial safet d Material or comple	y data s s provid eteness	0 heet is offe les no warr of the data	anties, eith contained	her expre	ess or im	plied, and as	sumes	no respon	sibility for t	the	

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