

# SAFETY DATA SHEET

	111	1		111	1 1		:**	Date	Accessed	d: 25/08	/2023
		1. 1.						Dat	e Revised	d: 12/11	/2022
the state	1					1 1 - 1	1	14			1. 1.
SECTION											
Product Name					'			·			·
CAS #: 12007					1. 1.			÷.,			1. 1.
Relevant iden		ses of t	he subst	ance: S	cienti	fic resea	rch and	devel	onment		
Supplier detai					, original			deven	phiene		1.
Stanford Adva	nced Ma	terials			1			<b>1</b>	1 1 - 1	:**	·
E-mail: sales@	)samate	rials.co	m								
Tel: (949) 407- Address: 2366											
											1. 1.
SECTION	2. H		RDS IE	DENT	IFIC		N	1 1 1		:**	÷.,
GHS Classifica	ation in a	iccorda	nce with 2	29 CFR	1910 (	OSHA H	CS),	1. 1.			÷.,
Skin irritation ( Eye irritation (0		1	н 1. т.	<b>`</b> ;	Т.		`:	1		`:	14. 14.
Specific target	organ to	oxicity -	single ex	posure	(Categ	ory 3), Re	espirato	ry syste	em		
Signal word: W	/arning		1 1								
	5										1 
Hazard statem	_	1			1			14. 14.			
Hazard statem Causes skin in	ent(s):										14. 14.
	ent(s): ritation.	÷.,									14. 14.
Causes skin in	ent(s): ritation. s eye irri	tation.		<b>`</b> ;	1. 1.		1	14. 1		<b>`</b> ;	

Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.

Wash skin thoroughly after handling.

Use only outdoors or in a well-ventilated area.

Wear protective gloves/ eye protection/ face protection.IF ON SKIN: Wash with plenty of soap and water.

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Call a POISON CENTER or doctor/ physician if you feel unwell.

Specific treatment (see supplemental first aid instructions on this label).

If skin irritation occurs: Get medical advice/ attention.

If eye irritation persists: Get medical advice/ attention.

Take off contaminated clothing and wash before reuse.

Store in a well-ventilated place. Keep container tightly closed.

Store locked up.

Dispose of contents/ container to an approved waste disposal plant.

Hazards not otherwise classified (HNOC) or not covered by GHS - none

## SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substances

Formula: B6Ca

Molecular Weight: 104.94 g/mol

CAS-No: 12007-99-7

EC-No: 234-525-3

No ingredients are hazardous according to OSHA criteria.

No components need to be disclosed according to the applicable regulations.

## SECTION 4. FIRST AID MEASURES

General advice:

Consult a physician. Show this safety data sheet to the doctor in attendance. If inhaled:

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact:

Wash off with soap and plenty of water. Consult a physician. In case of eye contact:

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician. If swallowed:

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

Most important symptoms and effects, both acute and delayed:

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

Indication of any immediate medical attention and special treatment needed:

No data available

## **SECTION 5. FIREFIGHTING MEASURES**

Extinguishing media Suitable extinguishing media: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide. Special hazards arising from the substance or mixture: Borane/boron oxides, Calcium oxide Advice for firefighters:

Wear self contained breathing apparatus for fire fighting if necessary.

### SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures:

Use personal protective equipment. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.

Environmental precautions:

Do not let product enter drains.

Methods and materials for containment and cleaning up:

Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

### **SECTION 7. HANDLING AND STORAGE**

Precautions for safe handling: Avoid contact with skin and eyes. Avoid formation of dust and aerosols.

Provide appropriate exhaust ventilation at places where dust is formed.Normal measures for preventive fire protection.

Conditions for safe storage, including any incompatibilities:

Keep container tightly closed in a dry and well-ventilated place. Keep in a dry place.

# SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Components with workplace control parameters:

Contains no substances with occupational exposure limit values.

Exposure controls

Appropriate engineering controls:

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks

and at the end of workday.

Personal protective equipment

Eye/face protection: Safety glasses with side-shields conforming to EN166 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:

impervious clothing, The type of protective equipment must be selected according to the concentration

and amount of the dangerous substance at the specific workplace.

Respiratory protection:

For nuisance exposures use type P95 (US) or type P1 (EU EN 143) particle respirator.For higher level

protection use type OV/AG/P99 (US) or type ABEK-P2 (EU EN 143) respirator cartridges. 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.

## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:

Form: powder

Odor: no data available

Odor Threshold: no data available

pH: no data available

Melting point/freezing point: no data available

Initial boiling point and boiling range: no data available

Flash point: not applicable

					1 I			
Evapouration rate: no data available	1. 1.			1.			1.	
Flammability (solid, gas): no data available								
Upper/lower flammability or explosive limits: no	data av	ailable						
Vapour pressure: no data available								
Vapour density: no data available	·	н н н		· · ·			·	
Relative density: 2.3 g/cm3 at 25 °C (77 °F)	1. 1.			1.			1.	
Water solubility: no data available			· .	· .		· .	•	
Partition coefficient: n-octanol/water: no data av							,	
Auto -ignition temperature: no data available	·			·			·	
Decomposition temperature: no data available								
Viscosity: no data available	14.							2
Explosive properties: no data available	1. 1.			۰.			· .	
Oxidizing properties: no data available								

	1 - 1				1			,		
SECTION 10. STA	BILITY	' AND	RE		/ΙΤΥ	1.				
Reactivity:		1	с. С.		1	1. 1.	: .			
no data available										
Chemical stability:			<b>'</b>		: * *	1 1		: ' '	1	
Stable under recommended	storage co	onditions.	·			·			÷.,	
Possibility of hazardous read	ctions:									
no data availableConditions	to avoid:	1	1.	н 1 - 1	1			1	14	
no data available										
Incompatible materials:	н н н		<b>'</b>	н 1 - 1	111	1 1		111	1	
Strong oxidizing agents			1. 1.			1. 1.		11	1. 1.	. •
Hazardous decomposition pl	roducts:									
Other decomposition produc	ts- no data	a available	9							

# SECTION 11. TOXICOLOGICAL INFORMATION

Information on toxicological effects Acute toxicity: no data available Inhalation: no data available Dermal: no data available Skin corrosion/irritation: no data available Serious eye damage/eye irritation: no data available Respiratory or skin sensitisation: no data available Germ cell mutagenicity: no data available Carcinogenicity IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC. ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as а carcinogen or potential carcinogen by ACGIH. NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP. OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as а carcinogen or potential carcinogen by OSHA. Reproductive toxicity: no data available Specific target organ toxicity - single exposure: Inhalation - May cause respiratory irritation. Specific target organ toxicity - repeated exposure: no data available Aspiration hazard: no data available Additional Information: RTECS: Not available Drowsiness, Dizziness, Nausea, Vomiting, Diarrhoea, Dermatitis, Irregular breathing., To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

SECTION 12. E	ECOL	OGIC/		NFO	RMAT	ION	1. 1.			1. 1.
Toxicity: no data availa	ble					1	Ч.,			1. 1.
Persistence and degra	dability: r	no data a	vailable	е						
Bioaccumulative poten	tial: no da	ata availa	able		1 1 - 1	111	1	н н н		1
Mobility in soil: no data	available	<b>Ə</b> , '		· .			1.			÷.,
Results of PBT and vP	vB asses	sment: P	BT/vP	vB ass						
assessment not require	ed/not co	nducted				1		1 1		· .
Other adverse effects:	no data a	available	:	1			1			÷.,
an an an an an	·			· .			۰.			÷.,
SECTION 13.	DISPO	SAL	CON	SID	ERAT	IONS				
Product:					1					
Offer surplus and non-	recyclable	e solutior	ns <sub>i</sub> to a	license	ed dispos	al comp	any.			
Contaminated packagi	ng:									
Dispose of as unused	oroduct			1. 1.			14			14.
<u>.</u>			1		1 1 - 1		·	н н н		
			<b>T</b> 161							
SECTION 14. 1	KAN	SPUR		ΓŲΚ			<b>'</b>		111	·
DOT (US):	· · .						1.			÷.,
Not dangerous goods										
IMDG:					н н н	1		н 1 — 1		11
Not dangerous goods										
IATA:	1		: * *	·		: • •	1 1			·

Not dangerous goods

## **SECTION 15. REGULATORY INFORMATION**

SARA 302 Components:

SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III,

Section 302.

SARA 313 Components:

SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313. SARA 311/312 Hazards: No SARA Hazards Massachusetts Right To Know Components: No components are subject to the Massachusetts Right to Know Act. Pennsylvania Right To Know Components:Calcium hexaboride CAS-No. 12007-99-7 New Jersey Right To Know Components: Calcium hexaboride CAS-No. 12007-99-7 California Prop. 65 Components: This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

#### **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.