

samaterials.com

SAFETY DATA SHEET

Version 3.0 Revision Date 09/04/2017

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-			1	111		1		.1	
		NIFICATION							
.11	Product identifiers	Deriversteartearte	1	1			1	÷.,	
	Product name Brand	: Barium carbonate : SAM							
	CAS-No.	: 513-77-9	1		1			· · ·	
	Relevant identified uses of the	substance or mixture and us	ses advis	ed against	1				
	Identified uses	: Laboratory chemicals, Syn	thesis of s	substances		5			
	Details of the supplier of the sa	afety data sheet							
	Company	Stanford Advanced Materials 23661 Birtcher Dr.	1	,i	1	1	.1		
		Lake Forest, CA 92630 USA	1.	÷.	1		i.	1.1	
	Telephone Fax	: +1 (949) 407-8904 : +1 (949) 812-6690							
	Emergency telephone number		·			1 			
	Emergency Phone #	: +1 (949) 407-8904							
			1		1			1	
. ト	AZARDS IDENTIFICATION								
	Classification of the substan		1		·			·	
	GHS Classification in accord Acute toxicity, Oral (Category 4		HA HCS)						
	For the full text of the H-Statem	nents mentioned in this Section	on, see Se	ection 16.					
	GHS Label elements, including	···· ··· · · · · · · · · · · · · · · ·							
	Ono Laber elements, meruanig	precautionary statements	· · ·					. 1	
	Pictogram	precautionary statements	1				·		
	-	precautionary statements							
	Pictogram		·				· .:		
	-	Warning Harmful if swallowed.							
•	Pictogram Signal word Hazard statement(s)	Warning	e when u	sing this p		you feel ur	nwell.		

## 3. COMPOSITION/INFORMATION ON

#### **INGREDIENTS 3.1 Substances**

Formula	:	CBaO3
Molecular weight	:	197.34 g/mol
CAS-No.	:	513-77-9
EC-No.	:	208-167-3
Index-No.	:	056-003-00-2

#### Hazardous components

Component and a second	Classification	Concentration	
Barium carbonate			· `
	Acute Tox. 4; H302	90 - 100 %	
For the full text of the H-Statements mentioned in this S	Section, see Section 16.		

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

#### 4.1 Description of first aid measures

General advice

Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

#### 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

Flush eyes with water as a precaution.

#### If swallowed

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

#### 4.2 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

#### **4.3 Indication of any immediate medical attention and special treatment needed** No data available

#### **5. FIREFIGHTING MEASURES**

#### 5.1 Extinguishing media

Suitable extinguishing media Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

#### 5.2 Special hazards arising from the substance or mixture No data available

# 5.3 Advice for firefighters

Wear self-contained breathing apparatus for firefighting if necessary.

## 5.4 Further information

No data available

## 6. ACCIDENTAL RELEASE MEASURES

#### 6.1 Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Avoid breathing dust.

For personal protection see section 8.

#### 6.2 Environmental precautions

Do not let product enter drains.

#### 6.3 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.

6.4 Reference to other sections

For disposal see section 13.

#### 7. HANDLING AND STORAGE

#### 7.1 Precautions for safe handling

Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Further processing of solid materials may result in the formation of combustible dusts. The potential for combustible dust formation should be taken into consideration before additional processing occurs. Provide appropriate exhaust ventilation at places where dust is formed.

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. Storage class (TRGS 510): 13: Non Combustible Solids

#### 7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

#### 8. EXPOSURE CONTROLS/PERSONAL

#### **PROTECTION 8.1 Control parameters**

#### Components with workplace control

#### parameters 8.2 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

#### Eve/face protection

Safety glasses with side-shields conforming to EN166 Use equipment for eve 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.

#### Full contact

Material: Nitrile rubber Minimum layer thickness: 0.11 mm Break through time: 480 min Material tested:Dermatril® (KCL 740 / Aldrich Z677272, Size M)

## Splash contact

Material: Nitrile rubber Minimum laver thickness: 0.11 mm Break through time: 480 min Material tested:Dermatril® (KCL 740 / Aldrich Z677272, Size M)

data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail sales@kcl.de, test method: EN374

If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

#### **Body Protection**

Complete suit protecting against chemicals, 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.

#### 9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

9.1	a) Appearance	Form: powder				1	1		1.1	
		Colour: white								
	b) Odour	odourless								
.:	c) Odour Threshold	No data available		1.1	: • •		1.1	: * *		1.1
	d) pH	6.8 at 3.67 g/l at 3	7 °C (99	9 °F)						
Ξ.	<ul> <li>e) Melting point/freezing point</li> </ul>	Melting point/freez	ing poii	nt: >= 900	°C (>= 1,6	52 °F)	1			· :
•	<ul> <li>f) Initial boiling point and boiling range</li> </ul>	No data available	·	:		·	:		·	:
	g) Flash point	No data available								
	h) Evaporation rate	No data available								
	i) Flammability (solid, gas)	No data available								
. '	j) Upper/lower flammability or	No data available	. '						. '	
1	explosive limits		1	1	.:		1	. :	÷.,	1
	k) Vapour pressure	No data available								
	I) Vapour density	No data available	·			·			·	
	m) Relative density	4.29 g/cm3 at 19 °	C (66 °	F)						
	n) Water solubility	0.0001 g/l - slightly	/ solubl	е						
	<ul> <li>Partition coefficient: n- octanol/water</li> </ul>	No data available	.:	1			1			·
	p) Auto-ignition	No data available								
1.	temperature q) Decomposition temperature	No data available	1	1		1			1	
•	r) Viscosity	No data available	·	:		·	:		1	
	s) Explosive properties	No data available								
	t) Oxidizing properties	No data available								
.2	Other safety information No data available	ni du	.:	1 	:**	.1	1	: * *	.1	÷.,
10.	STABILITY AND REACTIVITY		:	· .	.:	:	· .	:	1	· ,
0.1	<b>Reactivity</b> No data available									
0.2	Chemical stability Stable under recommended sto		·			1.1	1	:	1.1	÷.,

Page 4 of 7

10.3	<b>Possibility o</b> No data ava	f hazardous react	ions			·:	.÷	1		.:	÷.,	
10.4		o avoid		:	1	1	÷	1		:	1	1
10.5	Incompatible Strong acids	e materials										
10.6	Hazardous	decomposition p		; · · ·	, : 	*	; · ·	, i	'	: • •	. :	·
1	Other decon	decomposition products of fire: see section	- No data ava		re cond	nions Ci		es, banu		.:	1	
11.	TOXICOLOG	ICAL INFORMAT	ION									
11.	1 Informatio	on on toxicological	effects		<b>1</b>	1	:	1.1	1.	:	1.0	1.
	Acute tox LD50 Oral -	t <b>icity</b> Rat - 418 mg/kg										
	Dermal: No	data available	1	: ' '	. :	1	: * *	. :	1.1	: • •		÷.,
	No data ava											
1	Skin corros No data ava	i <b>on/irritation</b> ilable			1	1		1			1	
5	Eyes - Rabb Result: No e	e damage/eye irrit bit eye irritation - 1 h Guideline 405)	ation	:	5	÷.	ť	1 1	÷.	:	1 1	1
:	<b>Respiratory</b> No data ava	<b>/ or skin sensitisa</b> ilable	ation			5			1		:	·
	<b>Germ cell n</b> No data ava	nutagenicity ilable										
1	Carcinog	enicity		.1	1	1		1	1	. :	1	
·	IARC:	No component o as probable, pos						ual to 0.	1% is identi	fied	1	
	NTP:	No component of a known or antic				els greater	than or ec	ual to 0.	1% is identi	fied as		
	OSHA:	No component of OSHA's list of re	of this produc	t presen inogens	t at leve	els greater	than or eq	ual to 0.	1% is on		.:	۰
1	<b>Reproducti</b> No data ava				:	· .	:	1		;	:	
		e toxicity - Rat - In								-4) Dete		
·		ects: Spermatoger lidymis, sperm duc		ig genet	ic mate	riai, sperm	i morpholo	gy,motili	ty, and coul	nt). Pater		:S:
		e toxicity - Rat - In ects: Oogenesis. N		cts: Ova	ries, fal	opian tub	es.					
	<b>Specific tar</b> No data ava	get organ toxicity	/ - single exp	oosure	.:	1			5		.:	۰.,
:	<b>Specific tar</b> No data ava	get organ toxicity	/ - repeated	exposu	re					:	:	
	Aspiration I No data ava	hazard	i		<u></u>				i			
1	Additional I RTECS: CQ	nformation		:	1 		i.	1 	1	1	·	4.
;	5		1			1			5		Page 5 o	f7.,

1	Vomiting, Diarrhoea, To		our knowledg	ge, the ch	emical, p	hysical, and	toxicolo	gical prope	erties have	e not	
·	been thoroughly investi Stomach - Irregularities Stomach - Irregularities	- Based on			÷.	;	1.1		e <sup>r</sup>	1	1
12.	ECOLOGICAL INFORM										
	Toxicity							·			
	Toxicity to fish		Gambusia a	ffinis (Mos	squito fisl	h) - 6,950 mg	ı∕l - 96 h				
12.	2 Persistence and degra No data available					,			.1	1	
12.3	Bioaccumulative pote No data available	ntial		·			·			·	
12.4	<b>Mobility in soil</b> No data available										
12.5	Results of PBT and vF PBT/vPvB assessment			I safety as	ssessmei	nt not require	d/not c	onducted	: • •	.:	÷.,
12.6	Other adverse effects										
÷.,	No data available	4. ji ji		1			÷.,	1	.:	1	1
13.	DISPOSAL CONSIDERA	TIONS									
13.1 \	Waste treatment methods	S ,		1.1	1		·	4.	:	1	÷.,
.:	Offer surplus and nor disposal service to di chemical incinerator	spose of this equipped wi	s material, Di	ssolve or	mix the n						۰
1	Contaminated pack Dispose of as unused						1	1		1	
14.	TRANSPORT INFORM	ATION									
1	<b>DOT (US)</b> Not dangerous goods	1	i.	1	1	t, st	1 1	1	:	1	1
.:	IMDG Not dangerous goods	je su		ji.	1		.:	1	111	.:	·
1	IATA Not dangerous goods	4. A	.1	÷.,	1	.:	:	· :	,i	÷.,	1
15.	REGULATORY INFORM	NATION									
·	SARA 302 Component No chemicals in this ma		ubject to the r	eporting r	equireme	ents of SARA	Title III	, Section 3	02.	<b>`</b>	1
.:	SARA 313 Componen The following compone		ect to reportir	ng levels e	establishe	ed by SARA <sup>-</sup> CAS-No.	Title III,	Section 31 Revision		.:	·
	Barium carbonate					513-77-9		2015-07			
1	SARA 311/312 Hazard Acute Health Hazard, C		th Hazard	1	1		÷.,	`:		1	1
·	Massachusetts Right No components are subj			Right to Kr	now Act.		1	1		1	1
	Pennsylvania Right To	o Know Coi	mponents			CAS-No.		Dovisio-			
								Revisior	Date		
. 1			1.1			111	.1	1.1	111	Page 6	of 7,

#### Barium carbonate

#### 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.

513-77-9

2015-07-08

# **16. OTHER INFORMATION** Full text of H-Statements referred to under sections 2 and 3. Acute Tox. Acute toxicity H302 Harmful if swallowed.

Further information

This material safety data sheet is offered solely for your information, consideration, and investigation. Stanford Advanced Materials provides no warranties, either express or implied, and assumes no responsibility for the accuracy or completeness of the data contained herein.

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