

### SAFETY DATA SHEET

			. :						Date	Accesse	ed: 25/08	8/2023
					1 - 1 1		.:	1 - 1 1	Dat	e Revise	ed: 04/02	2/2023
	CTION				_							
	uct Name:											. 1
	#: 10043-5							1 - 1 - 1			1 - 1 1	
Relev	vant identi	fied us	ses of t	he subs	stance: S	Scienti	fic resea	rch and	develo	opment		
Supp	lier details	s:										
Stanfo	ord Advan	ced Ma	iterials						.:			
E-mai	il: sales@s	samate	rials.co	m								
	949) 407-8											
	ess: 23661											
	CTION									SHA HC		
GHSC	)7			'								
Eye Ir	rrit. 2 H319					,						
Hazar	rds not oth	erwise	classifi	ed No d	ata availa	able			:			
	label elem					tatemei	nts					
Hazar	rd pictogra	ms <sup>°</sup>		.1			.1					
GHSC	)7			'			<sup>1</sup>					
	l word Wa											
Hazar	rd stateme	nts	.1									.:
	Causes se											
	1									1		

	1						,				
Precautionary staten	nents	.:			.:						.:
P280 Wear protectiv											
P264 Wash thoroug	nly after h	andling.						1.1		. **	
P305+P351+P338 IF											
lenses, if present an	d easy to	do. Cont	inue rins	sing.							
P337+P313 If eye in	itation pe	ersists: G	et medic	al advi	ce/attent	ion.WHN	IIS clas	sification			.:
D2B - Toxic material	causing	other tox	ic effects	6							
Classification system											
HMIS ratings (scale	0-4)										
(Hazardous Material	s Identific	ation Sy	stem)								
HEALTH	1 1 - 1										. :
FIRE		<sup>1</sup>									
REACTIVITY											
<b>1</b> ,: :··						111			: * *		
0 ,; ; ,: · · ; 1		.:			.:			.:	1 I 1		.:
Health (acute effects	s) = 1, · ·	<sup>1</sup>									
Flammability = 0											
Physical Hazard = 1									; • •		
Other hazards											
Results of PBT and	vPvB ass	essment									
PBT: N/A		<sup>1</sup>		. * *						11	
vPvB: N/A											
		1.1.1									

## SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substances

CAS No. / Substance Name:

10043-52-4 Calcium chloride

Identification number(s):

				1.1.1		1.1.1		
EC number: 233-140-8	1 - 1 1							
Index number: 017-013-00-2								
SECTION 4. FIRST AID	MEAS	URE	S		.:			.:
Description of first aid measures	· · ·	, , ,				.)÷		
If inhaled:								
Supply patient with fresh air. If not b								
Seek immediate medical advice.		.:			.:		;••	
n case of skin contact:								
mmediately wash with soap and wa	iter; rinse t	horoug	hly.					, , ,
Seek immediate medical advice.	1.1.1							
n case of eye contact:								
Rinse opened eye for several minute	es under ru	unning	water. Co	onsult a p	physicia	an.		
lf swallowed: Seek medical treatment.						.:		
Information for doctor						<sup>1</sup>		
Most important symptoms and effec	ts, both ac	ute and	d delayed	:				
No data available	111			: • •	.:		:**	
Indication of any immediate medical	attention a	and spe	ecial treat	mentine	eded:	.:		1
No data available	,							
الميكنية ( ا			'					

#### SECTION 5. FIREFIGHTING MEASURES

Extinguishing mediaSuitable extinguishing agents Product is not	flamma	able. U	se fire-fig	phting
measures that suit the				
surrounding fire.			1.1	
Special hazards arising from the substance or mixture				
If this product is involved in a fire, the following can be released:				
Calcium oxide				

Hydrogen chloride (HCl)			 1			.:	 	
Advice for firefighters Protective equipment:		.*					 	
Wear self-contained respirator. Wear fully protective impervious sui	:	.:		;	.:		 .1	,

#### SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equ	uipment and	d emer	gency pro	ocedure	S			
Use personal protective equipment.	Keep unpro	otected	l persons	away.	,			
Ensure adequate ventilation	1 - 1 1	1			1			
Environmental precautions: Do not a	allow materi	ial to b	e release	d to the	enviror	iment wit	thout offi	cial
permits.								
Methods and materials for containm	ent and cle	anup: I	Pick up m	lechanic	ally.			
Prevention of secondary hazards: N	o special m	easure	es require	d.				
Reference to other sections	1	1 1	. '		н н -	. '	1	
See Section 7 for information on saf	e handling							
See Section 8 for information on per	sonal prote	ection e	equipmen	t.				
See Section 13 for disposal informat	tion.	. :			.1		111	.1
SECTION 7. HANDLING	· · ·		.:		, , ,	.:		
	· · ·		.:		, , ,	.:		
SECTION 7. HANDLING	g and	STO	RAGE	· · ·				
SECTION 7. HANDLING	G AND	STO	RAGE	· : 				
SECTION 7. HANDLING Handling Precautions for safe handling Handle under dry protective gas. Keep container tightly sealed.	G AND	STO	RAGE	· · ·				
<b>SECTION 7. HANDLING</b> Handling Precautions for safe handling Handle under dry protective gas.	G AND	STO	RAGE	· · ·				
SECTION 7. HANDLING Handling Precautions for safe handling Handle under dry protective gas. Keep container tightly sealed.	<b>G AND</b> Sed contain	STO	RAGE					
SECTION 7. HANDLING         Handling         Decautions for safe handling         Handle under dry protective gas.         Keep container tightly sealed.         Store in cool, dry place in tightly close	<b>G AND</b> Sed contain	STO	RAGE					

Conditions for safe storage, including an	ny incor	mpatibi	lities			.1			.:
Requirements to be met by storerooms				pecial rec	quireme	ents.			
Information about storage in one comm	on stora	age fac	ility:			· · · '			
Store away from water/moisture.									
Store away from oxidizing agents.				1.1					
Further information about storage condi	tions:					1	1 - 1 		.1
Store under dry inert gas. This product is hygroscopic.		- 1 - 1 1	*			'			
Keep container tightly sealed.									
Store in cool, dry conditions in well-seal	ed cont	tainers.							
Protect from humidity and water.				1 - 1 1					
Specific end use(s) No data available									
SECTION 8. EXPOSURE PROTECTION		TRC							
FROILOIION	,		.1	1 - 1 1			1 I 1		.:
Additional information about design of te	echnica								.:
		l syste	ms:			*			
Additional information about design of te	design	l syste ed for l	ms: nazardou	us chemic	cals and	d having	an avera	age	
Additional information about design of te Properly operating chemical fume hood face velocity of at least 100 feet per min	design ute.	l syster ed for l	ms: nazardou	us chemio	cals and	d having	an avera	age	
Additional information about design of te Properly operating chemical fume hood face velocity of at least 100 feet per min Control parameters Components with limit values that requi	design ute. re moni	I system ed for I itoring a	ms: nazardou at the wc	us chemio	cals and	d having	an avera	age	
Additional information about design of te Properly operating chemical fume hood face velocity of at least 100 feet per min Control parameters	design ute. re moni	I system ed for I itoring a	ms: nazardou at the wc	us chemio	cals and	d having	an avera	age	
Additional information about design of te Properly operating chemical fume hood face velocity of at least 100 feet per min Control parameters Components with limit values that require	design ute. re moni	I system ed for I	ms: nazardou at the wo	us chemio	cals and	d having	an avera	age	

Exposure controls

Personal protective equipment

Follow typical protective and hygienic practices for handling chemicals.

Keep away from foodstuffs, beverages and feed.

Remove all soiled and contaminated clothing immediately.

	1.1.1	1	1.1.1	1 1 1			1 1 1		
Wash hands before breaks and at	the end of v	work.							
Avoid contact with the eyes.									
Avoid contact with the eyes and sk	kin.	. * *	1.1 <sup>1</sup>					. **	
Maintain an ergonomically appropr	riate working	g enviro	nment.						
Breathing equipment: Use suitable		when hi	gh conce	ntrations	are pr	esent.	111		
Protection of hands;	1 1			н н н					.:
Impervious gloves									
Inspect gloves prior to use.									
The selection of suitable gloves no	ot only depe	nds on i	the mate	rial, but a	ilso on	quality. C	Quality w	ill ,	
from manufacturer to manufacture	r.					j.			.:
Penetration time of glove material									
Eye protection: Safety glasses									
Body protection: Protective work c	lothing.	1		; • •	.:		: • •	.1	
			.:						.:
<b>SECTION 9. PHYSICA</b>									
General Information									
Appearance:					. 1		: * *		
Form: Powder, granules or beads Color: White to grey			.:			.:			
Color: White to grey									
Odor: No data available		. • •	1. C						

Odor threshold: No data available.

pH: N/A Melting point/Melting range: 782 °C (1440 °F) Boiling point/Boiling range: >1600 °C (>2912 °F)

Sublimation temperature / start: No data available

Flammability (solid, gas) No data available.

Ignition temperature: No data available

Decomposition temperature: No data available

					1.1.1	1		1.1.1			
data av	/ailable	<b>)</b> .									
					· · · <sup>1</sup>			· · · <sup>1</sup>			
availabl	e								1.1		
N/A		.:									.:
(68 °F)	): 2.15	g/cm									
	1										
				ı			1				
/AEvap	oration	rate N/A									. :
scibility	with										
68 °F):	740 g/	I									
			1 1 1 1	.1			.1				
ent (n-o	octanol/	/water): No	o data	availab	le.						
n No da	ata <sup>l</sup> ava	ilable	: • •			111			111		
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10 5	ΤΔF		ΔΝΓ	RF	ΔΩΤΙ\						
10.0				► 1,XL/		, , , , ,					
ita avail											
	sion: No availabl availabl N/A ; (68 °F ; No dat /AEvap scibility 68 °F): ent (n-c	sion: No data available available N/A (68 °F): 2.15 No data availa /AEvaporation scibility with (68 °F): 740 g/ ent (n-octanol/ ent (n-octanol/ an No data ava <b>10. STAE</b>	sion: No data available. available N/A (68 °F): 2.15 g/cm No data available. /AEvaporation rate N/A scibility with (68 °F): 740 g/l ent (n-octanol/water): No an No data available n No data available	sion: No data available. available available N/A (68 °F): 2.15 g/cm No data available. /AEvaporation rate N/A scibility with 68 °F): 740 g/l ent (n-octanol/water): No data on No data available	data available. sion: No data available. available N/A (68 °F): 2.15 g/cm No data available. /AEvaporation rate N/A scibility with 68 °F): 740 g/l ent (n-octanol/water): No data availab in No data available <b>10. STABILITY AND RE</b>	data available. sion: No data available. Available available N/A c (68 °F): 2.15 g/cm No data available. /AEvaporation rate N/A scibility with 68 °F): 740 g/l ent (n-octanol/water): No data available.	data available. sion: No data available. available N/A P (68 °F): 2.15 g/cm No data available. /AEvaporation rate N/A scibility with 68 °F): 740 g/l ent (n-octanol/water): No data available. Modata available In No data available	data available sion: No data available available N/A 2 (68 °F): 2.15 g/cm /AEvaporation rate N/A scibility with 68 °F): 740 g/l ent (n-octanol/water): No data available. /AEvaporation rate N/A scibility with 68 °F): 740 g/l ent (n-octanol/water): No data available.	data available. available available N/A c (68 °F): 2.15 g/cm No data available. /AEvaporation rate N/A scibility with 68 °F): 740 g/l ent (n-octanol/water): No data available.	data available sion: No data available available available N/A : (68 °F): 2.15 g/cm No data available. /AEvaporation rate N/A scibility with 68 °F): 740 g/l ent (n-octanol/water): No data available. In No data available	data available.   sion: No data available.   available   available   available   available   available   N/A   (68 °F): 2.15 g/cm   No data available.   /AEvaporation rate N/A   scibility with   68 °F): 740 g/l   and available   n No data available   an No data available   an No data available

Chemical stability Stable under recommended storage conditions.

Thermal decomposition / conditions to be avoided: Decomposition will not occur if used and stored

according to specifications.

Possibility of hazardous reactions Reacts with strong oxidizing agents

Conditions to avoid No data available Incompatible materials:

Water/moisture

		1 1 1		1.1.1	1 1 1			1 1 1		
Oxidizing agents				.:			.:			
Hazardous decomposition	products:									
Calcium oxide	1.1 <sup>1</sup>			· · *			<sup>1</sup>			
Hydrogen chloride (HCI)										
ja and an										
										.1
SECTION 11. TO										
Information on toxicological			1			1			1	
Acute toxicity: The Registry toxicity	of Toxic Ef	fects of	Chemio	cal Subs	tances (F	RTECS	) contain	s acute	.:	
data for this substance.	.3	1 I 1			1 - 1 1					. 1
LD/LC50 values that are re	levant for cl	assificat	ion:							
Oral LD50 1000 mg/kg (rat)			1			1				
Skin irritation or corrosion:	May cause i	irritation				:				
Eye irritation or corrosion: (	Causes serie	ous eye	irritatio	n.		1			,	
Sensitization: No sensitizin	g effects kn	own.			1 - 1 1				н 1 - 1	. :
Germ cell mutagenicity: The	e Registry o	of Toxic I	Effects	of Chem	ical Sub	stance	s (RTEC	S) contai	ns	
mutation data for this subst	ance.									
Carcinogenicity:			.1			.1				
The Registry of Toxic Effec							-			
carcinogenic and/or neopla	stic data for	this sub	ostance	).						
No classification data on ca						ilable fr	om the E	EPA, IAR	C, , '	
NTP, OSHA or ACGIH.										
Reproductive toxicity: No e	ffects known	n. <sup>; ; ; ;</sup>			111	.1		111	.1	
Specific target organ system	m toxicity - r	epeated	l expos	ure: No	effects kr	nowņ.				:
Specific target organ syster	n toxicity - s	single ex	posure	: No effe	ects knov	vn.				
Aspiration hazard: No effec	ts known.						<sup>1</sup>			
Subacute to chronic toxicity contains	0						`	,	.:	
multiple dose toxicity data f	or this subs	tanco								

multiple dose toxicity data for this substance.

Additional toxicological information: To the best of our knowledge the acute and chronic toxicity of this

substance is not fully known.

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SECTION 12. ECOLOGIC					ı	:		
Toxicity	,				1 1			
Aquatic toxicity: No data available			<sup>1</sup>			<sup>1</sup>		
Persistence and degradability No data a								
Bioaccumulative potential No data avail	able							.:
Mobility in soil No data available			.:		, , ,			
Additional ecological information:								
Do not allow material to be released to t								
Do not allow undiluted product or large of	quantitie	es to re	each grou	ndwater	, water	courses,	or sewa	ige
systems.					1			
Avoid transfer into the environment.		, , ,			1 1 1			
Results of PBT and vPvB assessment								
PBT: N/A								
vPvB: N/A	:**	.:		:**			:**	.:
Other adverse effects No data available								
		1 1			1 1			
						1.1 <sup>1</sup>		
SECTION 13. DISPOSAL	CON	SIDI	ERATI	ONS				
Waste treatment methods	: * *			: * *			: * *	.1
Recommendation Consult official regula	tions to	ensur	e proper (	disposal	•			
Uncleaned packagings:					¥ T			
Recommendation: Disposal must be ma	ide acco	ording	to official	regulation	ons.			
Recommended cleansing agent: Water,								
			1.1.1					1

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ATA			14 114					
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A er N/A								
to Annex I	I of MAR	RPOL73	3/78 and	the IBC	Code N	I/A		
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# SECTION 15. REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture											
GHS label elements, including precaution	onary st	tatemer	ntsHazard	pictogr	ams						
GHS07	:			: • •	.:		; · · ·				
Signal word Warning			;			;					
Hazard statements			i	ï							
H319 Causes serious eye irritation.			<sup>1</sup>					. '			
Precautionary statements											
P280 Wear protective gloves/protective											
P264 Wash thoroughly after handling.											

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P337+P313 If eye irritation persists: Get medical advice/attention. National regulations All components of this product are listed in the U.S. Environmental Protection Agency Toxic Substances Control Act Chemical substance Inventory. All components of this product are listed on the Canadian Domestic Substances List (DSL). SARA Section 313 (specific toxic chemical listings) Substance is not listed. California Proposition 65 Prop 65 - Chemicals known to cause cancer Substance is not listed. Prop 65 - Developmental toxicity Substance is not listed. Prop 65 - Developmental toxicity, female Substance is not listed. Prop 65 - Developmental toxicity, male Substance is not listed. Information about limitation of use: For use only by technically qualified individuals. Other regulations, limitations and prohibitive regulations Substance of Very High Concern (SVHC) according to the REACH Regulations (EC) No. 1907/2006. Substance is not listed. The conditions of restrictions according to Article 67 and Annex XVII of the Regulation (EC) No 1907/2006 (REACH) for the manufacturing, placing on the market and use must be observed. Substance is not listed. Annex XIV of the REACH Regulations (requiring Authorisation for use) Substance is not listed. Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

#### **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

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prope	rties of tl	he produc	ct.		1 - 1 1	1 1 - 1	.1			.1			
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