

# SAFETY DATA SHEET

					: * *			: * *	Date	Accesse	d: 25/08	8/2023
	l'			, <sup>1</sup>					Dat	e Revise	ed: 01/11	/2022
			1									
SEC	CTION	1. ID	ENT	IFICA								
	uct Name				:**			:**			111	
	#: 409-21		-							e la compañía de la c		
	ant iden		sesjoit	ne subs	tance: a	scienti	nc resea	rcn anu	develo	pment		
• •	lier detai		toriale									
E-mai	ord Advar I: sales@	samate	rials.co	m							111	
	949) 407-											
	ss: 2366											
	CTION											
	ification a )8 Health		g to Re	gulation	(EC) No	1272/2	2008	;			:	
Carc. GHS0	2 H351 S	Suspecte	ed of ca	lusing ca	ncer.							
Skin I	rrit. 2 H31	15 Caus	es skin	irritation			1			e la companya de la c		
Eye Ir	rit. 2A H3	819 Cau	ses ser	ious eye	irritatior	). <sub>1</sub>						
	SE 3 H3								1			
Class	ification a	iccordin	g to Dir	ective 67	7/548/EE	C or D	irective 1	999/45/E	EC			
Xn; H	armful											

								. '
R40: Limited evidence of a carcinogenic effect.								
Xi; Irritant								
R36/37/38: Irritating to eyes, respiratory system	and ski	n.				1		. '
Information concerning particular hazards for hu								
Hazards not otherwise classified								. '
No data available								:
Label elements	:		. '	1				
Labelling according to Regulation (EC) No 1272		i.		ı				
The substance is classified and labeled accordin	ng to the	CLP reg	ulation.					
Hazard pictograms		,						
GHS07 GHS08			, ' '		:			:
Signal word: Warning						:		
Hazard statements								
H315 Causes skin irritation.						; • •		. •
H319 Causes serious eye irritation.								
H351 Suspected of causing cancer.			. '		1	. '		
H335 May cause respiratory irritation.	:		;			:	1	. '
Precautionary statements								
P261 - Avoid breathing dust/fume/gas/mist/vapo	rs/spray	/				111		. '
P280 - Wear protective gloves/protective clothing	g/eye pi	rotection/f	ace pro	tection	•			
P281 - Use personal protective equipment as re-	quired.							
P305+P351+P338 IF IN EYES: Rinse cautiously	with wa	ater for se	veral m	inutes.	Remove	contact		. '
lenses, if present and easy to do. Continue rinsing	ng.							
P405 - Store locked up.								. '
P501 - Dispose of contents/container in accorda	nce witl	h local/reg	ional/n	ational/	internatior	nal		:
regulations.								
WHMIS classification	:			1		:		
D2B - Toxic material causing other toxic effects								
Classification system								
HMIS ratings (scale 0-4)		i'			i'			;

				1 1 1			111			1 1 1		
(Hazardous Ma	terials l	dentific	ation Syst	tem)		:						
HEALTH												
FIRE									111	1		. * *
REACTIVITY												
1									. 11			
1,			t.	. '		1			i.			1
1 Health (acute e			.**	:			;			:	1	
Flammability =				1 1 1 1						1 1 1 1		
Physical Hazaro			:									
Other hazards				t i i	1	r	1	1	1	1		
Results of PBT	and vP	vB ass	essment	1			;					. * *
PBT: N/A												
vPvB: N/A	: • •									111		. **

#### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

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## SECTION 4. FIRST AID MEASURES

Description of first aid measures

If inhaled:

Supply patient with fresh air. If not breathing, provide artificial respiration. Keep patient warm. Seek immediate medical advice.

In case of skin contact:

Immediately wash with soap and water; rinse thoroughly. Seek immediate medical advice. In case of eye contact: Rinse opened eye for several minutes under running water. Consult a physician. If swallowed: Seek medical treatment. Information for doctor Most important symptoms and effects, both acute and delayed No data available Indication of any immediate medical attention and special treatment needed No data available						,						
In case of eye contact: Rinse opened eye for several minutes under running water. Consult a physician. If swallowed: Seek medical treatment. Information for doctor Most important symptoms and effects, both acute and delayed No data available Indication of any immediate medical attention and special treatment needed No data available	Immediately wash with	soap a	nd water;	rinse th	orough	ıly.						
In case of eye contact: Rinse opened eye for several minutes under running water. Consult a physician. If swallowed: Seek medical treatment. Information for doctor Most important symptoms and effects, both acute and delayed No data available Indication of any immediate medical attention and special treatment needed No data available	Seek immediate medic	al advic	e.									
If swallowed: Seek medical treatment. Information for doctor Most important symptoms and effects, both acute and delayed No data available Indication of any immediate medical attention and special treatment needed No data available	In case of eye contact:							1	11	t,		
If swallowed: Seek medical treatment. An additional ad					-							
Information for doctor Most important symptoms and effects, both acute and delayed No data available Indication of any immediate medical attention and special treatment needed No data available	If swallowed:		1 I 1				1.1.1					
Most important symptoms and effects, both acute and delayed No data available Indication of any immediate medical attention and special treatment needed No data available	Seek medical treatmen	it. 🕐				:1						:
Indication of any immediate medical attention and special treatment needed No data available							: <sup>1</sup>			:1	:	
No data available	No data available											
					•							
	No data available					e <sup>n</sup>			e <sup>n</sup>			;
										;		

#### SECTION 5. FIREFIGHTING MEASURES

Extinguishing media Suitable extinguishing agents	a' l			af l				et.	, ' '
Carbon dioxide, extinguishing p	owder or \	water s	oray. Fi	ght larger	fires w	ith wate	er spray or	alcoho	
resistant foam.									
Special hazards arising from the	e substanc	e or mi	ixture					: ' '	
If this product is involved in a fir	e, the follo						:		
Carbon monoxide and carbon d									
Silicon oxide			1		:	1	1		
Advice for firefighters									
Protective equipment:									
Wear self-contained respirator.	:	. '					:		
Wear fully protective impervious		:			:1			:	-

## SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Use personal protective equipn	nent. Kee	p unpro	otected	persons	away.					
Ensure adequate ventilation										
Environmental precautions:	. * *	1			1					
Do not allow material to be rele	ased to t	he envi	ronme	nt without	official	permits	5.			
Do not allow product to enter d	rains, sev	vage sy	/stems	, or other v	water c	ourses.				
Do not allow material to penetra	ate the gr	ound o	r soil.	:			e <sup>r</sup>			:
Methods and materials for cont	ainment	and cle	anup:			:			:	
Dispose of contaminated mater	rial as wa	ste acc	ording	to section			1			,
Ensure adequate ventilation.										
Prevention of secondary hazard	ds:			i.			i.			
No special measures required.	:						e l'			:
Reference to other sections										
See Section 7 for information o	n safe ha	Indling								
See Section 8 for information o	n person	al prote	ction e	quipment.						
See Section 13 for disposal info	ormation.									
	1		1							1
		:	;					÷		
SECTION 7. HANDL	ING A	AND	STO	RAGE						
Handling					: • •		11	111		
Precautions for safe handling										
Keep container tightly sealed.										
Store in cool, dry place in tightly	y closed o	contain	ers.			-	11			. * *
Ensure good ventilation at the v	workplace	Э.								
Information about protection ag	jainst exp	losions	and fi	res:				111		
No data available	:						e <sup>r</sup>			:
Conditions for safe storage, inc	luding an	iy incon	npatibi	lities						
Requirements to be met by stor	rerooms a	and rec	eptacle	es:	1	:				
No special requirements.										
Information about storage in on					,					
Store away from oxidizing ager	nts.			:			e <sup>r</sup>			:

Further information about storage conditions:

Keep container tightly sealed.

Store in cool, dry conditions in well-sealed containers.

Specific end use(s)

No data available

# SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Additional information about design of technical systems: Properly operating chemical fume hood designed for hazardous chemicals and having an average face velocity of at least 100 feet per minute. Control parameters Components with limit values that require monitoring at the workplace: 409-21-2 Silicon carbide (100.0%) PEL (USA) Long-term value: 15\* 5\*\* mg/m 3 fibrous dust: \*total dust \*\*respirable fraction REL (USA) Long-term value: 10\* 5\*\* mg/m 3 \*total dust \*\*respirable fraction TLV (USA) Long-term value: 10\* 3\*\* mg/m

3 fibrous dust:0.1 f/cc; nonfibrous:\*inh.,\*\*resp. EL (Canada) Long-term value: 10\* 3\*\* mg/m 3 \*inhalable, \*\*respirable EV (Canada) Long-term value: 10\* 3\*\* mg/m

3

, 0.1f/cc\*\*\* ppm

nonfibrous: *inh.,**resp.; ***fibrous, resp	)							:
Additional information: No data								
Exposure controls								
Personal protective equipment								
Follow typical protective and hygienic pr	actices fo	r handling ch	emicals.		. 11			. '
Keep away from foodstuffs, beverages a	and feed.	an a' a'			:			
Remove all soiled and contaminated clo	thing imm	ediately.		:				
Wash hands before breaks and at the er	nd of worl	κ.	i	i			i	
Avoid contact with the eyes and skin.								
Maintain an ergonomically appropriate w								
Breathing equipment:					1			;
Use suitable respirator when high conce	entrations	are present.						
Recommended filter device for short terr	m use:		;	,				
Use a respirator with type P100 (USA) o	or P3 (EN	143) cartridge	es as a b	backup	to engine	eering		
	or P3 (EN formed to	143) cartridgo determine if	es as a b air purify	backup ving res	to engine	eering		.*
Use a respirator with type P100 (USA) o controls.Risk assessment should be per	or P3 (EN formed to der approj	143) cartridgo determine if priate governi	es as a t air purify ment sta	backup ving res ndards	to engino pirators	eering are		.*
Use a respirator with type P100 (USA) o controls.Risk assessment should be per appropriate. Only	or P3 (EN formed to der approj	143) cartridgo determine if	es as a t air purify ment sta	backup ving res ndards	to engino pirators	eering are	  	
Use a respirator with type P100 (USA) o controls.Risk assessment should be per appropriate. Only use equipment tested and approved und Protection of hands: Impervious gloves Inspect gloves prior to use.	or P3 (EN formed to der approj	143) cartridgo determine if priate governi	es as a b air purify ment sta	backup ving res ndards	to engine pirators	eering are		
Use a respirator with type P100 (USA) o controls.Risk assessment should be per appropriate. Only use equipment tested and approved unc	or P3 (EN formed to der approj	143) cartridge determine if priate governi	es as a k air purify ment sta	backup ving res ndards	to engine	eering are		
Use a respirator with type P100 (USA) of controls.Risk assessment should be per appropriate. Only use equipment tested and approved und Protection of hands: Impervious gloves Inspect gloves prior to use.	or P3 (EN formed to der approp der both by	143) cartridge determine if priate governe material and	es as a b air purify ment sta I quality,	backup ving res ndards the latt	to engino pirators er of whi	eering are ch may v	/ary	.*
Use a respirator with type P100 (USA) of controls.Risk assessment should be per appropriate. Only use equipment tested and approved und Protection of hands: Impervious gloves Inspect gloves prior to use. Suitability of gloves should be determine by manufacturer.	or P3 (EN formed to der approp	143) cartridge determine if priate governe	es as a b air purify ment sta	backup ving res ndards the latt	to engine pirators er of whi	eering are ch may v	/ary	. *
Use a respirator with type P100 (USA) of controls.Risk assessment should be per appropriate. Only use equipment tested and approved und Protection of hands: Impervious gloves Inspect gloves prior to use. Suitability of gloves should be determine by manufacturer.	or P3 (EN formed to der approp	143) cartridge determine if priate governe material and	es as a b air purify ment sta	backup ving res ndards the latt	to engine pirators er of whi	eering are ch may v	/ary	.*
Use a respirator with type P100 (USA) o controls.Risk assessment should be per appropriate. Only use equipment tested and approved und Protection of hands: Impervious gloves Inspect gloves prior to use. Suitability of gloves should be determine by manufacturer. Material of gloves: Nitrile rubber, NBR Penetration time of glove material (in mi	or P3 (EN formed to der approp ed both by	143) cartridge determine if priate governe material and	es as a b air purify ment sta	backup ving res ndards the latt	to engine	eering are	/ary	
Use a respirator with type P100 (USA) of controls.Risk assessment should be per appropriate. Only use equipment tested and approved und Protection of hands: Impervious gloves Inspect gloves prior to use. Suitability of gloves should be determine by manufacturer.	or P3 (EN formed to der approp ed both by	143) cartridge determine if priate governe material and	es as a b air purify ment sta	backup ving res ndards the latt	to engine	eering are	/ary	
Use a respirator with type P100 (USA) of controls.Risk assessment should be per appropriate. Only use equipment tested and approved und Protection of hands: Impervious gloves Inspect gloves prior to use. Suitability of gloves should be determine by manufacturer. Material of gloves: Nitrile rubber, NBR Penetration time of glove material (in mit	or P3 (EN formed to der approp ed both by	143) cartridge determine if priate governe v material and	es as a b air purify ment sta	backup ving res ndards the latt	to engine	eering are	/ary	

## **SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

Information on basic physical and chemical properties

	1	1.1.1	1.1		 			
Appearance:			1					
Form: Various forms (powder/flake/crystal	line/be	eads, et	)					
Color: Grey to black				:				. * *
Odor: Odorless								
Odor threshold: No data available.					 			
pH: N/A								:
Melting point/Melting range: 2700 °C (489	2 °F)	:						
Boiling point/Boiling range: No data availa								
Sublimation temperature / start: No data a	vailab	le			 			
Flammability (solid, gas): No data availabl	e.							
Ignition temperature: No data available			1		 al an			1
Decomposition temperature: No data avail	lable	1				÷		
Autoignition: No data available.								
Danger of explosion: No data available.					 	: • •		
Explosion limits:								
Lower: No data available			1	. '	1			:
Upper: No data available	:	1		1		÷		
Vapor pressure: N/A								
Density at 20 °C (68 °F): 3.16 g/cm						:**		
<b>3</b>								
(26.37 lbs/gal)								
Relative density: No data available.	:							. * *
Vapor density: N/A								
Evaporation rate: N/A								. * *
Solubility in Water (H						$\mathcal{A}^{(1)}$		- 1
2	. '			. '			:	
O): Insoluble		1	,	ı			I	
Partition coefficient (n-octanol/water): No o	data av	vailable	<b>)</b>		 	; • •		
Viscosity:								
Dynamic: N/A	. '							÷

Kinematic: N/A Other information: No data available **SECTION 10. STABILITY AND REACTIVITY** Reactivity: 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 agentsConditions to avoid: No data available Incompatible materials: Oxidizing agents Hazardous decomposition products: Carbon monoxide and carbon dioxide

# SECTION 11. TOXICOLOGICAL INFORMATION

Information on toxicological effects Acute toxicity: The Registry of Toxic Effects of Chemical Substances (RTECS) contains acute toxicity

data for this substance.

Silicon oxide

LD/LC50 values that are relevant for classification: No data

Skin irritation or corrosion: Causes skin irritation.

Eye irritation or corrosion: Causes serious eye damage.

Sensitization: No sensitizing effects known.

Germ cell mutagenicity: No effects known.

Carcinogenicity: Suspected of causing cancer.

ACGIH A2: Suspected human carcinogen: Agent is carcinogenic in experimental animals at dose

levels, by route(s) of administration, at site(s), of histologic type(s), or by mechanism(s) considered

relevant to worker exposure. Available epidemiologic studies are conflicting or insufficient to confirm an increased risk of cancer in exposed humans.

The Registry of Toxic Effects of Chemical Substances (RTECS) contains tumorigenic and/or carcinogenic and/or neoplastic data for this substance.

Reproductive toxicity: No effects known.

Specific target organ system toxicity - repeated exposure: No effects known.

Specific target organ system toxicity - single exposure: May cause respiratory irritation. Aspiration hazard: No effects known.

Subacute to chronic toxicity:

The Registry of Toxic Effects of Chemical Substances (RTECS) contains 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. Carcinogenic categories OSHA-Ca (Occupational Safety & Health Administration)

Substance is not listed.

## **SECTION 12. ECOLOGICAL INFORMATION**

Toxicity Aquatic toxicity: No data available Persistence and degradability: No data available Bioaccumulative potential: No data available Mobility in soil: No data available Additional ecological information: Do not allow material to be released to the environment without official permits. Do not allow undiluted product or large quantities to reach groundwater, water courses, or sewage systems.

Avoid transfer into the environment.

									. 11			
Results of PBT	and vP	vBasse	essment						:			
PBT: N/A												
vPvB: N/AOthe	r advers	se effec	ts: No da	ta availa	able	, , ,		:				
						- 1 - 1 1						
SECTION	13. E	DISP	OSAL	CON	ISID	ERAT	IONS					
Waste treatmer		ods		: <sup>1</sup>	:		:			:*	:	
Consult official	regulati	ons to e	ensure pro	oper dis	sposal.		: • •					
Uncleaned pac												
Recommendati	ion:											
Disposal must l	be made	e accor	ding to of	ficial reo	gulatior	າຣ.						

SECTION	14. T	RAN	ISPO		IFOR	RMAT	ION			:**		.'
UN-Number			ť			t.						;
DÖT, ADN, IMD	G, IAT	Ą					:			t.		. '
N/A												
UN proper shipp	ing na	ne								111		. '
DOT, ADN, IMD	G, IAT	A	:			e e						:
N/A												
Transport hazar	d class	(es)		:			:			÷.		. '
DOT, ADR, ADN												
Class												. '
N/A			:		- 1 - 1 1	e <sup>r</sup>			:			:
Packing group DOT, IMDG, IAT		:		÷	:		a'			÷	1	.'
N/A Environmental h				;···			111					
N/A			:			l'		. * *			. * *	:

Special pre	ecautio	ns for u	user	:								
N/A												
Transport i	n bulk	accord	ling to A	Annex II of	MARP	OL73/7	8 and the	IBC C	ode		:	
N/A												
Transport//	Additio	nal info	ormation	ו:						. 11		
DOT				:		- 1 - 1 -	:			:		
Marine Pol	lutant (	DOT):	-		e <sup>r</sup>	:		: <sup>1</sup>	-			

#### **SECTION 15. REGULATORY INFORMATION**

Safety, health and environmental regulations/legislation specific for the substance or mixture 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 toxicitySubstance 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.

REACH - Pre-registered substances: Substance is 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 properties of the product.

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		:	-	. 11	:'	:		e <sup>r</sup>			:	. '
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