

SAFETY DATA SHEET

: .	:	;**		:			:		Date	Accesse	ed: 25/08	8/2023
	1	· · · ·						С.	Dat	e Revise	ed: 30/12	2/2022
1	1 - 1 1		1	1 I	1 1 1	1	1 I		1			1
SEC		1. ID	ENT	IFICA								
Produ	ict Name	e: Silicor	n Granı	ules								
CAS #	#: 7440-2	21-3		1 	· · .		1 	· · · .		1	· · · .	
Relev	ant iden	tified us	ses of t	the subs	stance: S	Scienti	fic resea	rch and	develo	opment		·
Suppl	ier deta	ils:										
	ord Adva				111	1 1 1	:	111	1 1 - 1	:	:**	
Tel: (9	49) 407-	8904		1	· · .		1 			1	· · .	
	ss: 2366											
`			1.0			1.1	1 - 1 1	1 1 - 1	1			
SEC	ידוסא	1 2 : L	A 7 A I	ו פחס	ראס			NI P		, '		
		. 2. 11/										
Classi	fication o	of the su	bstance	e or mixt	ure		1.1	· · · .		1.1	· · · .	

GHS Classification	n in aco	cordanc	e with 29	CFR 1	910 (O	SHA HCS)	·			·
Flammable solids											
For the full text of	țhe H-S	Stateme	ents ment	ioned ir	n this S	ection, see	e Sectio	on 16.	. '	; • •	
Pictogram											
Signal word	· · .		·	· · .		1	· · ·		1 	11	
Warning		·	н н н		1	н н н	1 1 1	·	н н н		·
Hazard statement	:(s)										
H228	; • •		1	; • •		1	, , , , ,			; • •	
Flammable solid.	· .			· · · .		1 1 1	· · .			··.	

Precautionary statement(s) P210 Keep away from heat/sparks/open flames/hot surfaces No smoking. P240 Ground/bond container and receiving equipment. P241Use explosion-proof electrical/ ventilating/ lighting/ equipment. P280 Wear protective gloves/ protective clothing/ eye protection/ face protection. P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction. Hazards not otherwise classified (HNOC) or not covered by GHS-none						,			1	11	1			
 P210 Keep away from heat/sparks/open flames/hot surfaces No smoking. P240 Ground/bond container and receiving equipment. P241Use explosion-proof electrical/ ventilating/ lighting/ equipment. P280 Wear protective gloves/ protective clothing/ eye protection/ face protection. P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction. 	Prec	autionary s	tatemer	nt(s)	5	· · ·		1	· · .		1	· · .		·
P240 Ground/bond container and receiving equipment. P241Use explosion-proof electrical/ ventilating/ lighting/ equipment. P280 Wear protective gloves/ protective clothing/ eye protection/ face protection. P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction.	P210	0												
Ground/bond container and receiving equipment. P241Use explosion-proof electrical/ ventilating/ lighting/ equipment. P280 Wear protective gloves/ protective clothing/ eye protection/ face protection. P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction.	Keep	p away fron	n heat/s	parks/o	pen flame	s/hot s	urfaces	No smo	oking.	1			1	
P241Use explosion-proof electrical/ ventilating/ lighting/ equipment. P280 Wear protective gloves/ protective clothing/ eye protection/ face protection. P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction.														
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection. P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction.	Grou	und/bond co	ontainer	and rec	ceiving eq	uipmer	nt.			1 1 1			н 1 - 1	:
Wear protective gloves/ protective clothing/ eye protection/ face protection. P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction.	P24	1Use explo	sion-pro	ofelect	rical/ vent	ilating/	lighting	/ equipme	ent.		1	· · .		·
In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction.	1.1												·	
Hazards not otherwise classified (HNOC) or not covered by GHS-none		1												:
	Haza	ards not oth	nerwise	classifie	ed (HNOC) or not	t covere	d by GHS	S-none					·

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substances Formula: Si	1	· · .		1	··.		5	···.	
Molecular Weight: 28.09 g/mol	н н н	1 1 1	'			1	1 I		1
CAS-No.: 7440-21-3									
EC-No.: 231-130-8		1.1.1	1 1 1		1.1.1		1		

SECTION 4. FIRST AID MEASURES

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

			1								
Wash off with so	ap and	l plenty	of water	. Consu	lt a phy	sician.			1		
In case of eye co	ontact										
Rinse thoroughly	/ with p	olenty o				inutes an					·
If swallowed											
Do NOT induce	vomitin					ith to an u					h with
water. Consult a	physic	ian.	1	· · .		1			1	11. 11.	
Most important s	symptor	ms and	effects,	both acu	ute and	delayed					·
The most import and/or	ant kno	own syr	nptoms a	and effe	cts are	described					
in section 11.	111		:'	111	, , ,		111		t.		
Indication of any	immed	diate m	edical att	tention a	ind spe	cial treatr	nent _i ne	eded	1	· · · .	
no data available		1		, , ,	1			1			1
SECTION	5. FI	REF	GHTI	NGN	IEAS	URES					: .

Extinguishing media			· · .		·			·		
Suitable extinguishing n	nedia	н н н					·			·
Use water spray, alcoho										
Special hazards arising	from th	e substan	ce or m	ixture	1			1	; • •	
silicon oxides										
Advice for firefighters									··.	
Wear self contained bre	athing a	apparatus	for fire	fighting	if necess	ary.	1	н н н		'
Further information										
Use water spray to cool	unoper	ned contai	ners.	, , ,		: ' '		i'		

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Avoid dust formation. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Avoid breathing dust. For personal protection see section 8. Environmental precautions Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Methods and materials for containment and cleaning up Sweep up and shovel. Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations (see section 13). Keep in suitable, closed containers for disposal. Contain spillage, pick up with an electrically protected vacuum cleaner or by wet-brushing and transfer to a container for disposal according to local regulations (see section 13) Reference to other sections

For disposal see section 13.

SECTION 7. HANDLING AND STORAGE

Precautions for safe handling

Avoid contact with skin andeyes. 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. Keep away from sources of ignition -No smoking. Take measures to prevent the build up of electrostatic charge.

For precautions see section 2.

Conditions for safe storage, including any incompatibilities

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

Over time, pressure may increase causing containers to burst Moisture sensitive. Store under nitrogen. Keep in a dry place.

Specific end use(s)

Apart from the uses mentioned in section 1 no other specific uses are stipulated

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

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 protecti on 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 Protectionimpervious clothing, Flame retardant antistatic protective 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

Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Information on ba	asic ph	ysical	and che	mical pro	operties			1			1.1	
Appearance												
Form: powder			:		1 1 1	ť		, , ,	:	111		:
Odor •	· · .		1	· · .		1	· · .		1	· · .		۰.
odourless					,							
Odor Threshold				1 1								
no data available pH) 		:		1 1 1	l.			:			:
no data available			1	· · · ·		1.00	11 A.		1	· · .		۰.
Melting point/free	ezing p	oint			·			1			·	
Melting point/ran												
Initial boiling poir	nt and I	ooiling	range	111								
2,355 °C (4,271 °												
Flash point	· · .		'	11		1			1	11		· .
no data available		'			1			1			1	
Evaporation rate												
no data available			÷									:
Flammability (sol	id, gas	;)	·			·			·	· · · .		
The substance of	r mixtu									,		
Upper/lower flam	mabili	ty or ex	plosive	limits	·	н н н		1	н н н		1	
no data available	<u>!</u>											
Vapor pressure			: ¹	111	1 1 1	i.	111	1 1 1	: ¹	111		
no data available			·	· · .		1	· · ·		1	· · ·		· .
Vapor density no data available	, , , ;	1.		1 1 - 1	1	1 - 1 1	1 1 - 1	·	1 - 1 1		1	
Relative density 2.33 g/mL at 25 °	°C (77	°F)	:	1.1	н 1 — 1	e ^r			e ^r			;
Water solubility			·	· · .		1	· · .		1	· · .		۰,

	1 1		i.		:						
insoluble		1.			1	· · .		1			·
Partition coefficient:											
no data available				1			1			1	
Auto-ignition tempe	rature										
>400 °C (> 752 °F)					1		н 1 — 1				
Decomposition tem	perature	1			1	· · .		1	· · ·		·
no data available Viscosity	: 	н н н		5	 		1			'	
no data available Explosive properties	S	:			:			, ¹	1 1 1 1		
no data availableOx	cidizing pro	operties	· · .		1	· · .		1.1			·
no data available		1 - 1 1	, , ,							1	

SECTION 10. STABI		ID RE		/ITY		e ^r	;**	н 1 - 1	
Reactivity							···.		
no data available		·			1			1	
Chemical stability									
Stable under recommended stora	age conditio	ons.	:			e ^r	; • •		
Possibility of hazardous reaction	S.		1			1			
no data available									
Conditions to avoid		·		н 1 - 1	1			1	
Heat, flames and sparks. Extrem	-			-					
Incompatible materials						1			
Strong oxidizing agents, Alkali ca	arbonates, ç	Calcium,	cobalt difl	uoride, n	nangan	ese triflu	oride		
Hazardous decomposition produ	cts	1		,	1				
Other decomposition products - r	no data ava	ilable	1 - 1 1	н н		,			
In the event of fire: see section 5	11 - 11 - 11 - 11 - 11 - 11 - 11 - 11		e ^r	: **		a' -	:		
· ·			1			1			

		1 1 1			1 1 1					
SECTION 11. TO	XICOLC)GIC/		IFORI	MATIO	ON				·
Information on toxicologic	al effects	, , ,		1 I		1			1	
Acute toxicity										
LD50 Oral - rat - 3,160 mg	g/kg		1	:	111		÷			÷
Inhalation: no data availal	ble			·			·			·
Dermal: no data available	;				,					
no data available			·		, , ,	1. j. j.			1	
Skin corrosion/irritation										
no data available					111		t.			÷
Serious eye damage/eye	irritation	· · .		1	· · .		5	· · .		÷.,
Eyes - rabbit		,			,					
Result: Mild eye irritation	- 24 h			н н н			1			
(Draize Test)										
Respiratory or skin sensit	isation	·			,		:	,		;
no data available	···· '··	· · .		1	С.,		1.1	· · · ·		÷.,
Germ cell mutagenicity	·		·			·			·	
no data available										
Carcinogenicity		: * *			111		:			
IARC:										
No component of this pro-	duct present	at levels	greate	r than or	equal to	0.1% i	s identifi	ed as		·
				н н н		1	1 - 1 1		1	
possible or confirmed hur	nan carcinog	en by IA	RC.							
ACGIH:		:**		i.	111			111	: .	÷
No component of this pro	-		-					ed as a		
carcinogen or potential ca	arcinogen by <i>i</i>	ACGIH.			· · .					
NTP:			1	н н н		1			1	
No component of this pro-	duct present	at levels	greate	r than or	equal to	0.1% i	s identifi	ed as a k	nown	
or anticipated carcinogen	by NTP.	; • •	1 1 1				t.			÷
OSHA:				1	· · .		·			·

No component of this p	roduct	preșent a	t levels	greate	r thạn or	equal to	0. <u>1</u> % i	s identifi	ed as a	
carcinogen or potential	carcin	ogen by C								
Reproductive toxicityno	data a	available		·			'			
no data available Specific target organ to	xicity -	single ex	posure	1 1 - 1		1 1 1 1	н 1 — 1	:'	;	
no data available		1	· · .		1	· · · .		1.1	11. 11.	
Specific target organ to no data available	xicity -	repeated	exposu	Ire	1 - 1 1	1 1 1	1		, , ,	·
Aspiration hazard		a' -	:		a' i	111		: ¹		
Additional Information		1	· · ,		1	· · .		5		
RTECS: VW0400000	·			·			·			·
To the best of our know										
thoroughly investigated		:		, , ,		1 1 1		:		
and the second		1			1	· · .		1		
SECTION 12. E		OGIC		NFO	RMA1	ΓΙΟΝ				

SEC ⁻	ΓΙΟΝ	12.	ECOL	.OGI	CAL	INFORM	ATION

Toxicity												
no data available		1 I I 1	1 1 - 1		1.1.1	н 1 - 1	i.	111				
Persistence and degradability:	·	· · .					·	··.,				
no data available												
Bioaccumulative potential:			1 			1.1			·			
no data available												
Mobility in soil:								1.1.1				
no data available	1	· · .		1	· · .		1	· · .				
Results of PBT and vPvB assessment:												
PBT/vPvB assessment not available as chemical safety assessment not required/not conducted												
Other adverse effects no data available	, ¹	1 1 1 1	1 1 1	ť		1 1 - 1	:					

SECTION 13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Product

Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in the igniting as this material is highly flammable. Offer surplus and non-recyclable solutions to a licensed disposal company.

Contaminated packaging

Dispose of as unused product.

			1.1.1				1	1			:
SECTION 1								1	· · .		۰.
DOT (US)			н 1 - 1	1			1 1	н н Н		1	
UN number: 1346 Class: 4.1		:	:		:		н 1 - 1	e ^r			:
Packing group: III	· · . · · · · · · · · · · · · · · · · ·	1. 			1			1.1	· · · ·		۰.
Proper shipping na	ame: Silic	on powde	r, amorpl	nous			·			·	
Reportable Quanti		r						,			
Marine pollutant: N	No				:						
Poison Inhalation I											
IMDG	· · · · · · · · · · · · · · · · · · ·	1. A.A.A.A.A.A.A.A.A.A.A.A.A.A.A.A.A.A.A			1			1.0	11. 1		
UN number: 13460	Class: 4.1	н н 1		1	н н н		1			1	
Packing group: III											
EMS-No: F-A, S-G	3				i'						:
Proper shipping na	ame: SILI	CON POV	VDER, A	MORPI	HOUS						
Marine pollutant: N	No		· · ·					1			
IATA	· · · · · · · · · · · · · · · · · · ·			1. 	н н н		1			1.0	
UN number: 1346											
Class: 4.1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1				:				111		
Packing group: III		1			1	м.,		1			

SECTION 15. REGULATORY INFORMATION

SARA 302 Comp	onents	6									
SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III,											
Section 302.		·			·			·			·
SARA 313 Comp						ı			,		
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											
SARA 311/312 H	azards	6	1	· · ·		1 	· · .		1 	· · .	
Fire Hazard		1. 			·	1 1 1		1	н н 1		÷.,
Massachusetts/Pennsylvania/New Jersey Right To Know Components											
Silicon	; • •						: • •		e ^r	: • •	
CAS-No. 7440-21-3	···,		۰	· · .		5	· · · .		1	•••.	
Revision Date		1	· · ·		·	н н н		1	н н н		·
2007-03-01											
California Prop. 6	5 Com	ponen	ts		н 1 — 1					: * *	
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.