

SAFETY DATA SHEET

Revision Date 30-Mar-2024

Revision Number 3

1. Identification

Product Name

Silicon lump

Cat No. :39101CAS No
Synonyms7440-21-3
No information availableRecommended Use
Uses advised againstLaboratory chemicals.
Food, drug, pesticide or biocidal product use.

Details of the supplier of the safety data sheet

<u>Company</u>

Thermo Fisher Scientific Chemicals, Inc. 30 Bond Street Ward Hill, MA 01835-8099 Tel: 800-343-0660 Fax: 800-322-4757

Emergency Telephone Number

For information **US** call: 001-800-227-6701 / **Europe** call: +32 14 57 52 11 Emergency Number **US**:001-201-796-7100 / **Europe:** +32 14 57 52 99 **CHEMTREC** Tel. No. **US**:001-800-424-9300 / **Europe:**001-703-527-3887

2. Hazard(s) identification

<u>Classification</u> Classification under 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Label Elements

Hazard Statements

Precautionary Statements <u>Hazards not otherwise classified (HNOC)</u> None identified

3. Composition/Information on Ingredients				
Component		CAS No	Weight %	
Silicon		7440-21-3	<=100	
4. First-aid measures				
General Advice If symptoms persist, call a physician.				
Eye Contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes medical attention.			the eyelids, for at least 15 minutes. Get	
Skin Contact Wash off immediately with plenty of water for at least 15 minutes. Get medical attention immediately if symptoms occur.				
Inhalation	Remove to fresh air. Get medical attention immediately if symptoms occur.			
ngestion Clean mouth with water and drink afterwards plenty of water. Get medical attention if symptoms occur.			of water. Get medical attention if	
Most important symptoms and None reasonably foreseeable.				
Notes to Physician				

5. Fire-fighting measures

Suitable Extinguishing Media	Not combustible. approved class D extinguishers.
Unsuitable Extinguishing Media	Water may be ineffective
Flash Point Method -	No information available No information available
Autoignition Temperature Explosion Limits	No information available
Upper	No data available
Lower	No data available
Sensitivity to Mechanical Impac	
Sensitivity to Static Discharge	No information available

Specific Hazards Arising from the Chemical Keep product and empty container away from heat and sources of ignition.

Hazardous Combustion Products

Silicon dioxide.

Protective Equipment and Precautions for Firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

NFPA

Health 0	Flammability 2	Instability 0	Physical hazards -				
	6. Accidental release measures						
Personal Precautions	Ensure adequate ventilation. Use personal protective equipment as required. Avoid dust formation. No special precautions required.						
Environmental Precautions	Should not be released into the environment. See Section 12 for additional Ecological						

Information.

Methods for Containment and Clean Sweep up and shovel into suitable containers for disposal. Avoid dust formation. Pick up and transfer to properly labelled containers.

7. Handling and storage

Handling

Storage.

Wear personal protective equipment/face protection. Ensure adequate ventilation. Avoid ingestion and inhalation. Avoid contact with skin, eyes or clothing. Avoid dust formation.

Keep in a dry place. Keep away from acids. Incompatible Materials. Oxidizing agent.

8. Exposure controls / personal protection

Exposure Guidelines

Component	ACGIH TLV	OSHA PEL	NIOSH	Mexico OEL (TWA)
Silicon		(Vacated) TWA: 10 mg/m ³	TWA: 10 mg/m ³	
		(Vacated) TWA: 5 mg/m ³	TWA: 5 mg/m ³	
		TWA: 15 mg/m ³	-	
		TWA: 5 mg/m ³		

<u>Legend</u>

OSHA - Occupational Safety and Health Administration NIOSH: NIOSH - National Institute for Occupational Safety and Health

Engineering Measures	None under normal use conditions.
Personal Protective Equipment	
Eye/face Protection	Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.
Skin and body protection	Wear appropriate protective gloves and clothing to prevent skin exposure.
Respiratory Protection	No protective equipment is needed under normal use conditions.
Recommended Filter type:	Particle filter.
Hygiene Measures	Handle in accordance with good industrial hygiene and safety practice.

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Physical StateSolidAppearanceNo information availableOdorNo information availableOdor ThresholdNo information availablepHNo information availableMelting Point/Range1423 °C / 2593.4 °FBoiling Point/Range2355 °C / 4271 °FFlash PointNo information availableEvaporation RateNo information availableFlammability (solid,gas)No information availableFlammability or explosive limitsVo data availableUpperNo data availableLowerNo information availableVapor PressureNo information availableVapor DensityNot applicableSpecific Gravity2.33 g/cm3			(
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Vapor Density Not applicable	Lower	No data available	
	Vapor Pressure	No information available	
Specific Gravity 2.33 g/cm3	Vapor Density	Not applicable	
	Specific Gravity	2.33 g/cm3	
		-	

Solubility Partition coefficient; n-octanol/water Autoignition Temperature Decomposition Temperature Viscosity

No information available No data available No information available No information available Not applicable

10. Stability and reactivity

Reactive Hazard None known, based on information available			
Stability	Stable under normal conditions.		
Conditions to Avoid Incompatible products.			
Incompatible Materials Oxidizing agent			
Hazardous Decomposition Products Silicon dioxide			
Hazardous Polymerization Hazardous polymerization does not occur.			
Hazardous Reactions	None under normal processing.		
11. Toxicological information			

Acute Toxicity

Product Information

Component Informa	ation						
Component		LD50 Oral		LD50 Dermal	LC50	LC50 Inhalation	
Silicon		LD50 = 3160 mg/kg (F	Rat)	Not listed	No	t listed	
oxicologically Syn	ergistic	No information ava	ailable		I		
Products Delayed and immed	liate effects	as well as chronic effe	cts from short a	nd long-term expo	osure		
rritation		No information ava	ailable				
Sensitization		No information ava	ailable				
Carcinogenicity		The table below in	dicates whether e	ach agency has lis	ted any ingredient a	as a carcinogen	
Component	CAS No	D IARC	NTP	ACGIH	OSHA	Mexico	
Silicon	7440-21-	-3 Not listed	Not listed	Not listed	Not listed	Not listed	
Iutagenic Effects		No information ava	ailable				
Reproductive Effect	ts	No information ava	No information available.				
Developmental Effe	cts	No information ava	No information available.				
Teratogenicity		No information ava	No information available.				
STOT - single exposure STOT - repeated exposure		None known None known					
Aspiration hazard		No information ava	No information available				
Symptoms / effects,both acute and delayed		and No information ava	No information available				
Endocrine Disrupto	r Informatio	No information ava	No information available				

Other Adverse Effects	The toxicological properties have not been fully investigated.			
	12. Ecological information			
<u>Ecotoxicity</u> Do not empty into drains.				
Persistence and Degradability	rsistence and Degradability Insoluble in water			
Bioaccumulation/ Accumulation	No information available.			
Mobility	Is not likely mobile in the environment due its low water solubility.			
13. Disposal considerations				
Waste Disposal Methods	Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.			

	14. Transport information				
DOT	Not regulated				
DOT TDG	Not regulated				
ΙΑΤΑ	Not regulated				
IMDG/IMO	Not regulated				
15. Regulatory information					

United States of America Inventory

Component	CAS No	TSCA	TSCA Inventory notification - Active-Inactive	TSCA - EPA Regulatory Flags
Silicon	7440-21-3	Х	ACTIVE	-

Legend:

TSCA US EPA (TSCA) - Toxic Substances Control Act, (40 CFR Part 710) X - Listed '-' - Not Listed

TSCA - Per 40 CFR 751, Regulation of Certain Chemical Substances & Mixtures, Under TSCA Section 6(h) (PBT)

TSCA 12(b) - Notices of Export

Not applicable

Not applicable

International Inventories

Canada (DSL/NDSL), Europe (EINECS/ELINCS/NLP), Philippines (PICCS), Japan (ENCS), Japan (ISHL), Australia (AICS), China (IECSC), Korea (KECL).

Component	CAS No	DSL	NDSL	EINECS	PICCS	ENCS	ISHL	AICS	IECSC	KECL
Silicon	7440-21-3	Х	-	231-130-8	Х	Х		Х	Х	KE-31029

KECL - NIER number or KE number (http://ncis.nier.go.kr/en/main.do)

U.S. Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

SARA 311/312 Hazard Categories

Should this product meet EPCRA 311/312 Tier reporting criteria at 40 CFR 370, refer to Section 2 of this SDS for appropriate classifications.

CWA (Clean Water Act)	Not applicable
Clean Air Act	Not applicable
OSHA - Occupational Safety and Health Administration	Not applicable

CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

California	Propos	sition	65
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This product does not contain any Proposition 65 chemicals.

U.S. State Right-to-Know Regulations

Component	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Silicon	Х	Х	Х	-	Х

U.S. Department of Transportation

Reportable Quantity (RQ): DOT Marine Pollutant DOT Severe Marine Pollutant	N N N
U.S. Department of Homeland Security	This product does not contain any DHS chemicals.
Other International Regulations	
Mexico - Grade	No information available

Authorisation/Restrictions according to EU REACH

1	Component	CAS No	REACH (1907/2006) -	REACH (1907/2006) -	REACH Regulation (EC
			Annex XIV - Substances	Annex XVII - Restrictions	1907/2006) article 59 -
			Subject to Authorization	on Certain Dangerous	Candidate List of
				Substances	Substances of Very High
					Concern (SVHC)
	Silicon	7440-21-3	-	-	-

Not applicable

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

Component	CAS No	OECD HPV	Persistent Organic Pollutant	Ozone Depletion Potential	Restriction of Hazardous Substances (RoHS)
Silicon	7440-21-3	Listed	Not applicable	Not applicable	Not applicable

Contains component(s) that meet a 'definition' of per & poly fluoroalkyl substance (PFAS)? Not applicable

Other International Regulations

	Component	CAS No	Seveso III Directive (2012/18/EC) - Qualifying Quantities for Major Accident Notification	Seveso III Directive (2012/18/EC) - Qualifying Quantities for Safety Report Requirements	Rotterdam Convention (PIC)	Basel Convention (Hazardous Waste)
L	Silicon	7440-21-3	Not applicable	Not applicable	Not applicable	Not applicable

16. Other information

Prepared By

Health, Safety and Environmental Department Email: chem.techinfo@thermofisher.com www.thermofisher.com

Revision Date Print Date Revision Summary 30-Mar-2024 30-Mar-2024 New emergency telephone response service provider.

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text

End of SDS