

SAFETY DATA SHEET

Revision Date 10-Feb-2019

Revision Number 1

Europe:001-703-527-3887

1. Identification

 Product Name
 Silicon Lumps

 Cat No. :
 C6980L

 Synonyms
 None.

 Recommended Use
 Laboratory chemicals.

 Uses advised against
 No Information available

 Details of the supplier of the safety data sheet
 Emergency Telephone Number

 Company
 Post Apple Scientific, inc.

Post Apple Scientific, inc. 8893 Gulf Rd North East, PA 16428 Tel: 814-725-3330

2. Hazard(s) identification

Classification

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Flammable solids

Category 2

Label Elements

Signal Word Warning

Hazard Statements None

Precautionary Statements Prevention Keep away from heat/sparks/open flames/hot surfaces. - No smoking Ground/bond container and receiving equipment Use explosion-proof electrical/ventilating/lighting/equipment Wear protective gloves/protective clothing/eye protection/face protection **Fire** In case of fire: Use CO2, dry chemical, or foam for extinction <u>Hazards not otherwise classified (HNOC)</u> None identified

3. Composition / information on ingredients

Component	CAS-No	Weight %
Silicon	7440-21-3	>95

A First-aid measures

4. Filst-alu measures		
Eye Contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Obtain medical attention.	
Skin Contact	Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. In the case of skin irritation or allergic reactions see a physician.	
Inhalation	Remove from exposure, lie down. Move to fresh air. Obtain medical attention.	
Ingestion	Clean mouth with water. Get medical attention.	
Most important symptoms/effects Notes to Physician	No information available. Treat symptomatically	

5. Fire-fighting measures		
Suitable Extinguishing Media	Dry chemical. Dry powder. Dry sand.	
Unsuitable Extinguishing Media	Water	
Flash Point Method -	No information available No information available	
Autoignition Temperature Explosion Limits	150 °C / 302 °F	
Upper	No data available	
Lower Sensitivity to Mechanical Impac Sensitivity to Static Discharge	No data available t No information available No information available	

Specific Hazards Arising from the Chemical

Flammable. May be ignited by heat, sparks or flames.

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 1	Flammability 3	Instability 0	Physical hazards N/A		
	6. Accidental release measures				
Personal Precautions	Use personal protective equipment. Avoid dust formation. Remove all sources of ignition. Take precautionary measures against static discharges.				

Environmental Precautions	Should not be released into the environment. See Section 12 for additional ecological information.
Methods for Containment and Clear Up	Sweep up or vacuum up spillage and collect in suitable container for disposal. Avoid dust formation. Remove all sources of ignition. Use spark-proof tools and explosion-proof equipment.
	7. Handling and storage
Handling	Avoid contact with skin and eyes. Do not breathe dust. Do not breathe vapors or spray mist. Take precautionary measures against static discharges. Use only in area provided with appropriate exhaust ventilation. Use only non-sparking tools. Use explosion-proof equipment. Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapors).
Storage	Keep in a dry, cool and well-ventilated place. Keep container tightly closed. Flammables

Keep in a dry, cool and well-ventilated place. Keep container tightly closed. Flammables area. Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

8. Exposure controls / personal protection

Exposure Guidelines

Component	ACGIH TLV	OSHA PEL	NIOSH IDLH
Silicon		(Vacated) TWA: 10 mg/m ³ (Vacated) TWA: 5 mg/m ³ TWA: 15 mg/m ³ TWA: 5 mg/m ³	TWA: 10 mg/m³ TWA: 5 mg/m³

Component	Quebec	Mexico OEL (TWA)	Ontario TWAEV
Silicon	TWA: 10 mg/m ³	TWA: 10 mg/m ³ STEL: 20 mg/m ³	TWA: 10 mg/m³

Legend

OSHA - Occupational Safety and Health Administration

NIOSH IDLH: The National Institute for Occupational Safety and Health Immediately Dangerous to Life or Health

Engineering Measures	Ensure adequate ventilation, especially in confined areas.
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	Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.
Hygiene Measures	Handle in accordance with good industrial hygiene and safety practice.

	9. Physical and chemical properties	
Physical State	Powder Solid	
Appearance	Dark grey	
Odor	Odorless	
Odor Threshold	No information available	
рН	No information available	
Melting Point/Range	1410 °C / 2570 °F	
Boiling Point/Range	2355 °C / 4271 °F @ 760 mmHg	

Flash Point	No information av
Evaporation Rate	No information av
Flammability (solid.gas)	No information av
Flammability or explosive limits	
Upper	No data available
Lower	No data available
Vapor Pressure	No information av
Vapor Density	No information av
Relative Density	No information av
Solubility	No information av
Partition coefficient; n-octanol/water	No data available
Autoignition Temperature	150 °C / 302 °l
Decomposition Temperature	No information av
Viscosity	No information av
Molecular Formula	Si
Molecular Weight	28.09

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10. Stability and reactivity		
Reactive Hazard	None known, based on information available	
Stability	Stable under normal conditions.	
Conditions to Avoid	Excess heat. Incompatible products. Keep away from open flames, hot surfaces and sources of ignition.	
Incompatible Materials	Strong oxidizing agents, Acids	
Hazardous Decomposition Produc	Hazardous Decomposition Products Silicon dioxide	
Hazardous Polymerization	Hazardous polymerization does not occur.	
Hazardous Reactions	None under normal processing.	
	11. Toxicological information	

Acute Toxicity

Component Information

Component	LD50 Oral	LD50 Oral LD50 Dermal LC50 Inhalation				
Silicon	3160 mg/kg (Rat)	Not listed	No	Not listed		
Toxicologically Synergistic	No information available					
Products						
Delayed and immediate effect	s as well as chronic effects from	short and long-term expo	<u>osure</u>			
Irritation	No information available	No information available				
Sensitization	No information available					
Carainaganiaity	The table below indicates y	vhether each agency has lis	tod onv ingradiant (
Carcinogenicity		memer each agency has is		as a carcinoyen.		
Component CAS-				Mexico		

	omponent	CAS-No	IARC	NTP	ACGIH	OSHA	Mexico			
	Silicon	7440-21-3	Not listed	Not listed	Not listed	Not listed	Not listed			
Mutagenic Effects			No information available							
Reproductive Effects			No information available.							
Developmental Effects			No information available.							
Teratogenicity			No information available.							

STOT - single exposure STOT - repeated exposure	None known None known				
Aspiration hazard	No information available				
Symptoms / effects,both acute and	No information available				
delayed Endocrine Disruptor Information No information available					
Other Adverse Effects	The toxicological properties have not been fully investigated. See actual entry in RTECS for complete information.				
12. Ecological information					
Ecotoxicity Do not empty into drains.					
Persistence and Degradability Bioaccumulation/ Accumulation	No information available No information available.				

Mobility

No information available.

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

Not Regulated
Not Regulated
Not Regulated
Not Regulated
15. Regulatory information

International Inventories

Component	TSCA	DSL	NDSL	EINECS	ELINCS	NLP	PICCS	ENCS	AICS	IECSC	KECL
Silicon	Х	Х	-	231-130-8	-		Х	-	Х	Х	Х

Legend: X - Listed

E - Indicates a substance that is the subject of a Section 5(e) Consent order under TSCA.

F - Indicates a substance that is the subject of a Section 5(f) Rule under TSCA.

N - Indicates a polymeric substance containing no free-radical initiator in its inventory name but is considered to cover the designated

polymer made with any free-radical initiator regardless of the amount used.

P - Indicates a commenced PMN substance

R - Indicates a substance that is the subject of a Section 6 risk management rule under TSCA.

S - Indicates a substance that is identified in a proposed or final Significant New Use Rule

T - Indicates a substance that is the subject of a Section 4 test rule under TSCA.

XU - Indicates a substance exempt from reporting under the Inventory Update Rule, i.e. Partial Updating of the TSCA Inventory Data Base Production and Site Reports (40 CFR 710(B).

Y1 - Indicates an exempt polymer that has a number-average molecular weight of 1,000 or greater.

Y2 - Indicates an exempt polymer that is a polyester and is made only from reactants included in a specified list of low concern reactants that comprises one of the eligibility criteria for the exemption rule.

No No Yes No No

U.S. Federal Regulations

TSCA 12(b)	Not applicable
SARA 313	Not applicable
SARA 311/312 Hazardous Catego Acute Health Hazard Chronic Health Hazard Fire Hazard Sudden Release of Pressure H Reactive Hazard	

Clean Water Act	Not applicable

Clean Air Act Not applicable

OSHA Occupational Safety and Health Administration Not applicable

CERCLA

Not applicable

California Proposition 65

This product does not contain any Proposition 65 chemicals

State Right-to-Know

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

U.S. Department of Transportation

Reportable Quantity (RQ):	Ν
DOT Marine Pollutant	Ν
DOT Severe Marine Pollutant	Ν

U.S. Department of Homeland Security

This product does not contain any DHS chemicals.

Other International Regulations

Mexico - Grade

No information available

Canada

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR

WHMIS Hazard Class B4 Flammable solid



16. Other information

Prepared By

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Revision Date Print Date Revision Summary 10-Feb-2019 10-Feb-2019 This document has been updated to comply with the US OSHA HazCom 2012 Standard replacing the current legislation under 29 CFR 1910.1200 to align with the Globally Harmonized System of Classification and Labeling of Chemicals (GHS)

Disclaimer

The information provided on 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 guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as 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 material or in any process, unless specified in the text.

End of SDS