

SAFETY DATA SHEET

Creation Date 22-Sep-2009

Revision Date 24-Dec-2021

Revision Number 7

1. Identification

Product Name

Silica gel desiccant

amorphous silicon dioxide

63231-67-4

Cat No. :

S704-10; S704-25; S704-25LC

CAS No Synonyms

Recommended Use Uses advised against

Laboratory chemicals. Food, drug, pesticide or biocidal product use.

Details of the supplier of the safety data sheet

Company Fisher Scientific Company One Reagent Lane Fair Lawn, NJ 07410 Tel: (201) 796-7100

Emergency Telephone Number

CHEMTREC®, Inside the USA: 800-424-9300 CHEMTREC®, Outside the USA: 001-703-527-3887

2. Hazard(s) identification

Classification

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 Hazards not otherwise classified (HNOC) None identified WARNING. Cancer - https://www.p65warnings.ca.gov/.

3. Composition/Information on Ingredients

Component		CAS No	Weight %			
Silica, amorphous		7631-86-9	100			
	4.	First-aid measures				
Eye Contact	Rinse immeo medical atter	diately with plenty of water, also under th ntion.	ne 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.					
Ingestion	Clean mouth with water and drink afterwards plenty of water. Get medical attention if symptoms occur.					
Most important symptoms and effects	None reason	ably foreseeable.				
Notes to Physician	Treat sympto	omatically				
	5 5	ro fighting modeuros				

5. Fire-fighting measures

Suitable Extinguishing Media	Substance is nonflammable; use agent most appropriate to extinguish surrounding fire.

Unsuitable Extinguishing Media	No information available
Flash Point Method -	Not applicable No information available
Autoignition Temperature Explosion Limits	No information available
Upper	No data available
Lower	No data available
Sensitivity to Mechanical Impact	No information available
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. Non-combustible.

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 0	Instability 0	Physical hazards N/A	
	6. Accidental re	lease measures		
Personal Precautions	Use personal protective ec formation.	quipment as required. Ensure ac	lequate ventilation. Avoid dust	
Environmental Precautions	Should not be released int Information.	o the environment. See Section	12 for additional Ecological	

Methods for Containment and Clean Sweep up and shovel into suitable containers for disposal. Avoid dust formation. Up

7. Handling and storage

Handling

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

Storage.

Keep containers tightly closed in a dry, cool and well-ventilated place. Incompatible Materials. Strong oxidizing agents.

8. Exposure controls / personal protection

Exposure Guidelines

Component	ACGIH TLV	OSHA PEL	NIOSH IDLH	Mexico OEL (TWA)
Silica, amorphous		(Vacated) TWA: 6 mg/m ³	IDLH: 3000 mg/m ³	
			TWA: 6 mg/m ³	

<u>Legend</u>

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

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.
Hygiene Measures	Handle in accordance with good industrial hygiene and safety practice.

9. Physical and chemical properties

	ingeneration and enormout properties
Physical State	Solid
Appearance	White
Odor	Odorless
Odor Threshold	No information available
рН	No information available
Melting Point/Range	No data available
Boiling Point/Range	No information available
Flash Point	Not applicable
Evaporation Rate	Not applicable
Flammability (solid,gas)	No information available
Flammability or explosive limits	
Upper	No data available
Lower	No data available
Vapor Pressure	No information available
Vapor Density	Not applicable
Specific Gravity	No information available
Solubility	Insoluble in water
Partition coefficient; n-octanol/water	No data available
Autoignition Temperature	No information available
Decomposition Temperature	No information available
Viscosity	Not applicable
Molecular Formula	SiO2.XH2O

	10. Stab	ility and rea	octivity			
Reactive Hazard	None known, base	ed on information a	vailable			
Stability	Stable under normal conditions.					
Conditions to Avoid Incompatible products. Excess heat. Avoid dust formation.						
Incompatible Materials	Strong oxidizing ag	gents				
Hazardous Decomposition Pro	ducts Silicon dioxide					
Hazardous Polymerization	Hazardous polyme	erization does not o	occur.			
Hazardous Reactions	None under norma	al processing.				
	11. Toxico	ological info	ormation			
Acute Toxicity						
Product Information Oral LD50 Dermal LD50 Mist LC50 Component Information	Oral LD50Based on ATE data, the classification criteria are not met. ATE > 2000 mg/kg.Dermal LD50Based on ATE data, the classification criteria are not met. ATE > 2000 mg/kg.Mist LC50Based on ATE data, the classification criteria are not met. ATE > 5 mg/l.					
Component	LD50 Oral		D50 Dermal	LC50	Inhalation	
Silica, amorphous Toxicologically Synergistic	>5000 mg/kg (Rat No information ava	/	0 mg/kg (Rabbit)		-	
Products Delayed and immediate effects as well as chronic effects from short and long-term exposure Irritation May cause skin, eye, and respiratory tract irritation Sensitization No information available						
Sensitization	No information ava	ailable				
Sensitization Carcinogenicity	No information ava		ich agency has list	ed any ingredient	as a carcinogen.	
Carcinogenicity Component CAS No.	The table below in	dicates whether ea	ACGIH	OSHA	Mexico	
Carcinogenicity	The table below in D IARC -9 Not listed	dicates whether ea NTP Known NTP: (Natio Known - Kn Reasonably	ACGIH Not listed nal Toxicity Program own Carcinogen	OSHA Not listed	Mexico Not listed	
Carcinogenicity Component CAS No Silica, amorphous 7631-86	The table below in D IARC -9 Not listed	dicates whether ea <u>NTP</u> <u>Known</u> <i>NTP: (Natio Known - Kn</i> <i>Reasonably</i> <i>Carcinogen</i>	ACGIH Not listed nal Toxicity Program own Carcinogen	OSHA Not listed	Mexico Not listed	
Carcinogenicity Component CAS No Silica, amorphous 7631-86 NTP: (National Toxicity Progra	The table below in IARC -9 Not listed m)	dicates whether ea <u>NTP</u> <u>Known</u> <i>NTP: (Natio Known - Kn</i> <i>Reasonably</i> <i>Carcinogen</i> ailable	ACGIH Not listed nal Toxicity Program own Carcinogen	OSHA Not listed	Mexico Not listed	
Carcinogenicity Component CAS No Silica, amorphous 7631-86 NTP: (National Toxicity Progra Mutagenic Effects	The table below in IARC -9 Not listed m) No information ava	dicates whether ea <u>NTP</u> <u>Known</u> <i>NTP: (Natio Known - Kn</i> <i>Reasonably</i> <i>Carcinogen</i> ailable	ACGIH Not listed nal Toxicity Program own Carcinogen	OSHA Not listed	Mexico Not listed	
Carcinogenicity Component CAS No Silica, amorphous 7631-86 NTP: (National Toxicity Progra Mutagenic Effects Reproductive Effects	The table below in D IARC -9 Not listed m) No information ava No information ava	dicates whether ea <u>NTP</u> <u>Known</u> <i>NTP: (Natio Known - Kn</i> <i>Reasonably</i> <i>Carcinogen</i> ailable ailable.	ACGIH Not listed nal Toxicity Program own Carcinogen	OSHA Not listed	Mexico Not listed	
CarcinogenicityComponentCAS NotestingSilica, amorphous7631-86NTP: (National Toxicity ProgradMutagenic EffectsReproductive EffectsDevelopmental Effects	The table below in D IARC -9 Not listed m) No information ava No information ava No information ava	dicates whether ea <u>NTP</u> <u>Known</u> <i>NTP: (Natio Known - Kn</i> <i>Reasonably</i> <i>Carcinogen</i> ailable ailable.	ACGIH Not listed nal Toxicity Program own Carcinogen	OSHA Not listed	Mexico Not listed	
CarcinogenicityComponentCAS NotSilica, amorphous7631-86NTP: (National Toxicity PrograMutagenic EffectsReproductive EffectsDevelopmental EffectsTeratogenicitySTOT - single exposure	The table below in -9 Not listed m) No information ava No information ava No information ava No information ava No information ava No information ava	dicates whether ea <u>NTP</u> <u>Known</u> <i>NTP: (Natio Known - Kn</i> <i>Reasonably</i> <i>Carcinogen</i> ailable ailable. ailable. ailable.	ACGIH Not listed nal Toxicity Program own Carcinogen	OSHA Not listed	Mexico Not listed	
Carcinogenicity Component CAS Notesting Silica, amorphous 7631-86. NTP: (National Toxicity Prograd Mutagenic Effects Reproductive Effects Developmental Effects Teratogenicity STOT - single exposure STOT - repeated exposure	The table below in D IARC -9 Not listed m) No information ava No information ava No information ava No information ava None known None known None known No information ava	dicates whether ea <u>NTP</u> <u>Known</u> <i>NTP: (Natio Known - Kn</i> <i>Reasonably</i> <i>Carcinogen</i> ailable ailable. ailable. ailable.	ACGIH Not listed nal Toxicity Program own Carcinogen	OSHA Not listed	Mexico Not listed	

Other Adverse Effects

The toxicological properties have not been fully investigated.

12. Ecological information

Ecotoxicity

0	E		Enclosed on Field	N <i>t</i> i		
Component		vater Algae	Freshwater Fish	Microtox	Water Flea	
Silica, amorphous	EC50: 440 mg/L/72h		LC50: 5000 mg/L/96 h	Not listed	EC50: 7600 mg/L/48h	
Persistence and Degrada	ability	Insoluble in v	vater			
Bioaccumulation/ Accum						
Mobility Is not likely mobile in the environment due its low water solubility.						
		13. Di	sposal considera	ations		
Waste Disposal Methods Chemical waste generators must dete hazardous waste. Chemical waste ge national hazardous waste regulations				erators must also consu	It local, regional, and	
		14. T	ransport informa	ation		
DOT		Not regulated	1			
TDG		Not regulated	ł			
IATA		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
Silica, amorphous	7631-86-9	Х	ACTIVE	-

Legend:

TSCA US EPA (TSCA) - Toxic Substances Control Act, (40 CFR Part 710) X - Listed

'-' - Not Listed

TSCA 12(b) - Notices of Export 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
Silica, amorphous	7631-86-9	Х	-	231-545-4	Х	Х	Х	Х	Х	KE-31032

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

U.S. Federal Regulations

SARA 313	Not applicable
SARA 311/312 Hazard Categories	See section 2 for more information
CWA (Clean Water Act)	Not applicable
Clean Air Act	Not applicable

OSHA - Occupational Safety and Not applicable Health Administration

	Component	Specifically Regulated Chemicals	Highly Hazardous Chemicals
	Silica, amorphous	50 μg/m³ TWA	-
		25 µg/m ³ Action Level	
CERCLA	Not app	licable	

California Proposition 65

This product contains the following Proposition 65 chemicals.

Component	CAS No	California Prop. 65	Prop 65 NSRL	Category
Silica, amorphous	7631-86-9	Carcinogen	-	Carcinogen
			•	

U.S. State Right-to-Know

Regulations

Component	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Silica, amorphous	Х	-	Х	-	-

U.S. Department of Transportation

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

U.S. Department of Homeland	This product does not contain any DHS chemicals.
Security	

Other International Regulations

Mexico - Grade

No information available

Authorisation/Restrictions according to EU REACH

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

		Substances (RoHS)
Silica, amorphous 7631-86-9 Listed Not applicable N	Not applicable	Not applicable

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)
Silica, amorphous	7631-86-9	Not applicable	Not applicable	Not applicable	Not applicable

16. Other information			
Prepared By	Regulatory Affairs Thermo Fisher Scientific		
	Email: EMSDS.RA@thermofisher.com		
Creation Date	22-Sep-2009		
Revision Date	24-Dec-2021		
Print Date	24-Dec-2021		
Revision Summary	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 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

