

SAFETY DATA SHEET

Creation Date 22-September-2009 Revision Date 24-December-2021 Revision Number 6

1. Identification

Product Name Silica Gel (Davisil) Sorbent (Mesh 230-400, Grade 653 XWP)

Cat No. : \$814-1

CAS-No 63231-67-4

Synonyms amorphous silicon dioxide

Recommended Use Laboratory chemicals.

Uses advised against Food, drug, pesticide or biocidal product use.

Details of the supplier of the safety data sheet

Company

Importer/Distributor Manufacturer

Fisher Scientific Fisher Scientific Company
112 Colonnade Road, One Reagent Lane
Ottawa, ON K2E 7L6, Fair Lawn, NJ 07410
Canada Tel: (201) 796-7100

Tel: 1-800-234-7437

Emergency Telephone Number CHEMTREC®, Inside the USA: 800-424-9300

CHEMTREC®, Outside the USA: 001-703-527-3887

2. Hazard(s) identification

Classification

WHMIS 2015 Classification Not classified under the Hazardous Products Regulations (SOR/2015-17)

Based on available data, the classification criteria are not met

Label Elements

None required

Hazard Statements

Precautionary Statements

3. Composition/Information on Ingredients

Component	CAS-No	Weight %
Silica, amorphous	7631-86-9	100

4. First-aid measures

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get **Eve Contact**

medical attention.

Wash off immediately with plenty of water for at least 15 minutes. Get medical attention **Skin Contact**

immediately if symptoms occur.

Inhalation Remove to fresh air. Get medical attention immediately if symptoms occur.

Clean mouth with water and drink afterwards plenty of water. Get medical attention if Ingestion

symptoms occur.

Most important symptoms/effects

Notes to Physician

None reasonably foreseeable.

Treat symptomatically

Fire-fighting measures

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

No information available **Unsuitable Extinguishing Media**

Flash Point Not applicable

No information available Method -

Autoignition Temperature

Explosion Limits

No data available

No information available

Upper No data available Lower

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 Physical hazards **Flammability** Instability N/A 0 1

Accidental release measures

Use personal protective equipment as required. Ensure adequate ventilation. Avoid dust **Personal Precautions**

formation.

Should not be released into the environment. See Section 12 for additional Ecological **Environmental Precautions**

Information.

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	Alberta	British Columbia	Ontario TWAEV	Quebec	ACGIH TLV	OSHA PEL	NIOSH IDLH
Silica, amorphous						(Vacated) TWA: 6 mg/m ³	IDLH: 3000 mg/m ³
							TWA: 6 mg/m ³

Legend

OSHA - Occupational Safety and Health Administration

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

Engineering Measures

None under normal use conditions.

Personal protective equipment

Eye 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.

Hand Protection Wear appropriate protective gloves and clothing to prevent skin exposure.

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l	Glove material	Breakthrough time	Glove thickness	Glove comments
l	Natural rubber	See manufacturers	-	Splash protection only
l	Nitrile rubber	recommendations		
l	Neoprene			
1	PVC			

Inspect gloves before use. observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. (Refer to manufacturer/supplier for information) gloves are suitable for the task: Chemical compatability, Dexterity, Operational conditions, User susceptibility, e.g. sensitisation effects, also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, gloves with care avoiding skin contamination.

Respiratory Protection

No protective equipment is needed under normal use conditions.

Recommended Filter type: Particle filter

Environmental exposure controls

No information available.

Hygiene Measures

Handle in accordance with good industrial hygiene and safety practice. Keep away from food, drink and animal feeding stuffs. Do not eat, drink or smoke when using this product. Remove and wash contaminated clothing and gloves, including the inside, before re-use. Wash hands before breaks and after work.

9. Physical and chemical properties

Physical State

Solid

Silica Gel (Davisil) Sorbent (Mesh 230-400, Grade 653 XWP)

AppearanceWhiteOdorOdorless

Odor Threshold
pHNo information available
No information availableMelting Point/RangeNo data availableBoiling Point/RangeNo information available

Flash Point Not applicable
Evaporation Rate Not applicable

Flammability (solid, gas)

No information available

Flammability or explosive limits

UpperNo data availableLowerNo data availableVapor PressureNo information available

Vapor Density
Specific Gravity
No information available
Solubility
Insoluble in water

Partition coefficient; n-octanol/water
Autoignition Temperature

No data available
No information available

Decomposition TemperatureNo information availableViscosityNot applicable

Molecular Formula SiO2.XH2O

10. Stability and reactivity

Reactive Hazard None known, based on information available

Stability Stable under normal conditions.

Conditions to Avoid Incompatible products. Excess heat. Avoid dust formation.

Incompatible Materials Strong oxidizing agents

Hazardous Decomposition Products Silicon dioxide

Hazardous Polymerization Hazardous polymerization does not occur.

Hazardous Reactions None under normal processing.

11. Toxicological information

Acute Toxicity

Product InformationNo acute toxicity information is available for this product

Oral LD50

Based on ATE data, the classification criteria are not met. ATE > 2000 mg/kg.

Dermal LD50

Based on ATE data, the classification criteria are not met. ATE > 2000 mg/kg.

Mist LC50

Based on ATE data, the classification criteria are not met. ATE > 5 mg/l.

Component Information

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
Silica, amorphous	>5000 mg/kg (Rat)	>2000 mg/kg (Rabbit)	-

Toxicologically Synergistic No information available

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

Carcinogenicity The table below indicates whether each agency has listed any ingredient as a carcinogen.

Silica Gel (Davisil) Sorbent (Mesh 230-400, Grade 653 XWP)

Component	CAS-No	IARC	NTP	ACGIH	OSHA	Mexico
Silica, amorphous	7631-86-9	Not listed	Known	Not listed	Not listed	Not listed

NTP: (National Toxicity Program)

NTP: (National Toxicity Program) Known - Known Carcinogen

Reasonably Anticipated - Reasonably Anticipated to be a Human

Carcinogen

Mutagenic Effects No information available

Reproductive Effects No information available.

Developmental Effects No information available.

No information available. **Teratogenicity**

STOT - single exposure None known None known STOT - repeated exposure

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.

12. Ecological information

Ecotoxicity

	Component	Freshwater Algae	Freshwater Fish	Microtox	Water Flea
I	Silica, amorphous	EC50: 440 mg/L/72h	LC50: 5000 mg/L/96 h	Not listed	EC50: 7600 mg/L/48h

Persistence 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.	Transp	ort	inforr	nation

DOT Not regulated **TDG** Not regulated Not regulated IATA IMDG/IMO Not regulated

15. Regulatory information

International Inventories

Component	CAS-No	DSL	NDSL	TSCA	TSCA Inventory notification - Active-Inactive		EINECS	ELINCS	NLP
Silica, amorphous	7631-86-9	X	-	Х	ACTIVE		231-545-4	-	-
Component	CAS-No	IECSC	KECL	ENCS	ISHL	TCSI	AICS	NZIoC	PICCS

Silica Gel (Davisil) Sorbent (Mesh 230-400, Grade 653 XWP)

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Silica, amorphous	7631-86-9	X	KE-31032	X	X	X	X	X	X

Legend:

X - Listed '-' - Not Listed

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

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

EINECS/ELINCS - European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances

IECSC - Chinese Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

ENCS - Japanese Existing and New Chemical Substances

AICS - Australian Inventory of Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

Canada

SDS in compliance with provisions of information as set out in Canadian Standard - Part 4, Schedule 1 and 2 of the Hazardous Products Regulations (HPR) and meets the requirements of the HPR (Paragraph 13(1)(a) of the Hazardous Products Act (HPA)).

Other International Regulations

Authorisation/Restrictions according to EU REACH

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)
Silica, amorphous	7631-86-9	Listed	Not applicable	Not applicable	Not applicable
Component	CAS-No	Seveso III Directive (2012/18/EC) -	Seveso III Directive (2012/18/EC) -	Rotterdam Convention (PIC)	Basel Convention (Hazardous Waste)

- 1	Component	CAS-NO	Seveso III Directive	Seveso III Directive	Rotterdam	Basel Convention
			(2012/18/EC) -	(2012/18/EC) -	Convention (PIC)	(Hazardous Waste)
			Qualifying Quantities	Qualifying Quantities		
			for Major Accident	for Safety Report		
			Notification	Requirements		
	Silica, amorphous	7631-86-9	Not applicable	Not applicable	Not applicable	Not applicable
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16. Other information

Prepared By Regulatory Affairs

Thermo Fisher Scientific

Email: EMSDS.RA@thermofisher.com

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Revision Summary This document has been updated to comply with the requirements of WHMIS 2015 to align

with the Globally Harmonised System (GHS) for the Classification and Labelling of

Chemicals.

Disclaimer

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End of SDS