

SAFETY DATA SHEET

Creation Date 08-January-2010 Revision Date 18-January-2018 **Revision Number** 3 1. Identification **Product Name** Silica Cat No. : S150-3; S151-10; S153-3 CAS-No 7631-86-9 Diatomaceous earth; Silicon dioxide; Amorphous silica (40-200 mesh & finer/Fine Synonyms Granules/Floated) **Recommended Use** Laboratory chemicals. Uses advised against Not for food, drug, pesticide or biocidal product use Details of the supplier of the safety data sheet **Company** Importer/Distributor Manufacturer **Fisher Scientific Fisher Scientific** One Reagent Lane 112 Colonnade Road, Fair Lawn, NJ 07410 Ottawa, ON K2E 7L6, Tel: (201) 796-7100 Canada 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 Classified as hazardous under the Hazardous Products Regulations (SOR/2015-17) Specific target organ toxicity (single exposure) Category 3 Target Organs - Respiratory system. Label Elements Signal Word Warning **Hazard Statements** May cause respiratory irritation



Precautionary Statements Prevention

Do not breathe dust/fumes/gas/mist/vapours/spray Use only outdoors or in a well-ventilated area Wear protective gloves/protective clothing/eye protection/face protection

Response

IF INHALED: Remove person to fresh air and keep comfortable for breathing

IF exposed or concerned: Get medical advice/attention

Storage

Store locked up Store in a well-ventilated place. Keep container tightly closed

Disposal

Dispose of contents/container to an approved waste disposal plant

3. Composition/Information on Ingredients

Component		CAS-No	Weight %		
Silica, amorphous		7631-86-9	100		
	4.	First-aid measures			
Eye Contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention.				
Skin Contact	Wash off immediately with plenty of water for at least 15 minutes. Get medical attention immediately if symptoms occur.				
Inhalation	Move 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/effects Notes to Physician	None reasonably foreseeable. Treat symptomatically				
	5. Fi	re-fighting measures			
Unsuitable Extinguishing Media	No information	on available			
Flash Point Method -	Not applicable No information available				
Autoignition Temperature Explosion Limits Upper Lower Sensitivity to Mechanical Impact Sensitivity to Static Discharge					

Specific Hazards Arising from the Chemical

None known.

Hazardous Combustion Products

None known

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 2	Flammability 0	Instability 1	Physical hazards N/A			
	6. Accidental re	lease measures				
Personal Precautions Environmental Precautions	Use personal protective equipment. Ensure adequate ventilation. Avoid dust formation. Should not be released into the environment.					
Methods for Containment and C Up	ean Sweep up or vacuum up s formation.	billage and collect in suitable c	container for disposal. Avoid dust			
	7. Handling	and storage				
Handling		quipment. Ensure adequate vigestion and inhalation. Avoid	entilation. Avoid contact with skin, dust formation.			
Storage	Keep containers tightly clo	sed in a dry, cool and well-ver	tilated place.			
8.	Exposure controls	/ personal protecti	on			

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

Engineering Measures

None under normal use conditions.

Personal protective equipment

Eye Protection		e eyeglasses or chemical safet action regulations in 29 CFR 19	
Hand Protection	Wear appropriate protective	e gloves and clothing to prever	it skin exposure.
Glove material	Breakthrough time	Glove thickness	Glove comments
Natural rubber	See manufacturers	-	Splash protection only
Nitrile rubber	recommendations		
Neoprene			
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 before re-use. Wash hands before breaks and at the end of workday.

9. Physica	al and chemical properties
Physical State	Solid
Appearance	Light orange
Odor	Odorless
Odor Threshold	No information available
рН	No information available
Melting Point/Range	1710 °C / 3110 °F
Boiling Point/Range	2230 °C / 4046 °F
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	2.20
Solubility	Insoluble in water
Partition coefficient; n-octanol/water	No data available
Autoignition Temperature	
Decomposition Temperature	No information available
Viscosity	Not applicable
Molecular Formula	SiO2
Molecular Weight	60.08
10. S	Stability and reactivity

Reactive Hazard	None known, based on information available					
Stability	Hygroscopic.					
Conditions to Avoid	Avoid dust formation. Incompatible products. Excess heat. Exposure to moist air or water.					
Incompatible Materials	Strong oxidizing agents, Strong acids					
Hazardous Decomposition Product	ts None known					
Hazardous Polymerization	Hazardous polymerization does not occur.					
Hazardous Reactions	None under normal processing.					

11. Toxicological information

Acute Toxicity

Product Information

Product Information	=						
Component Informa		LD50 Oral		LD50 Dermal	1 C 50	Inhalation	
) >200	00 mg/kg (Rabbit)	>2.2 mg		
Toxicologically Syn		>5000 mg/kg (Rat No information ava	/	(1.a		_ (1007) 111	
Products	Jene						
Delayed and immed	liate effects as w	ell as chronic effe	cts from short a	nd long-term expos	sure		
Irritation		May cause eye, sk	kin, and respirator	y tract irritation			
Sensitization		No information ava	ailable				
Carcinogenicity		The table below in	dicates whether e	ach agency has liste	ed any ingredient	as a carcinogen.	
Component	CAS-No	IARC	NTP	ACGIH	OSHA	Mexico	
Silica, amorphous NTP: (National To	7631-86-9	Not listed	Not listed	Not listed	Not listed	Not listed	
Mutagenic Effects		No information ava	Carcinogei ailable	y Anticipated - Reasor n	nably Anticipated to	be a Human	
Reproductive Effect	ts	No information available.					
Developmental Effe	cts	No information available.					
Teratogenicity		No information available.					
STOT - single expos STOT - repeated ex		Respiratory system None known					
Aspiration hazard		No information available					
Symptoms / effects delayed	s,both acute and	and No information available					
Endocrine Disrupto	r Information	No information available					
Other Adverse Effe	cts	The toxicological p	properties have no	t been fully investig	ated.		

12. Ecological information

Ecotoxicity

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Component	Freshwater Algae		Freshwater Fish	Microtox	Water Flea
Silica, amorphous	EC50: 440 m	g/L/72h	LC50: 5000 mg/L/96 h	Not listed	EC50: 7600 mg/L/48h
Persistence and Degrada	ability No	o informatio	on available		
Bioaccumulation/ Accun Mobility	umulation No information				
		13. Di	sposal considera	ations	
Waste Disposal Methods	ha	Chemical waste generators must determine whether a discarded chemical is classi hazardous waste. Chemical waste generators must also consult local, regional, an national hazardous waste regulations to ensure complete and accurate classification			It local, regional, and

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

All of the components in the product are on the following Inventory lists: X = listed

International Inventories

Component	DSL	NDSL	TSCA	EINECS	ELINCS	NLP	PICCS	ENCS	AICS	IECSC	KECL
Silica, amorphous	Х	-	Х	231-545-4	-		Х	Х	Х	Х	Х

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)).

	16. Other information
Prepared By	Regulatory Affairs Thermo Fisher Scientific Email: EMSDS.RA@thermofisher.com
Creation Date Revision Date Print Date Revision Summary	08-January-2010 18-January-2018 18-January-2018 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

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