

527-3887

Material Safety Data Sheet Revision Date 23-Oct-2009

Creation Date 23-Oct-2009

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Revision Number 1

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name	Silica Gel Sorbent
Cat No.	S821-1; S823-1; S823-212; S824-1; S825-1; S825-12; S825-25; S825- 25LC; S825-212; S826-1; S826-12; S826-25; S826-212; S827-1; S827-212; S827-500; S829-1; S829-212; S829-500; S830-500; S832-1; S833-1; S834- 1; S834-212; S834-500
Synonyms	Silicon dioxide; Amorphous silica; (Mesh: 35-70, 70-230, 170-230, < 230, 230-400, 350-600; Grades: 40, 60, 60EP, 100)
Recommended Use	Laboratory chemicals
Company Fisher Scientific One Reagent Lane Fair Lawn, NJ 07410	Emergency Telephone Number CHEMTREC®, Inside the USA: 800- 424-9300 CHEMTREC®, Outside the USA: 703-

2. HAZARDS IDENTIFICATION

CAUTION!					
	Emergency Overview				
	Irritating to eyes and respiratory system. Hygroscopic.				
Appearance White	Physical State Solid	odor odorles			
Target Organs	Eyes, Respiratory system, Kidney				
Potential Health Effects					
Acute Effects Principle Routes of Exposur	e				
Eyes Skin Inhalation Ingestion	Irritating to eyes. May cause irritation. May be harmful in contact with skin. Irritating to respiratory system. May be harmful if inhaled. May be harmful if swallowed. Ingestion may cause gastrointestinal and diarrhea.	irritation, nausea, vomiting			
Chronic Effects	Limited evidence of a carcinogenic effect May cause adverse kidr	ey effects.			

See Section 11 for additional Toxicological information.

Aggravated Medical Conditions Preexisting eye disorders.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Haz/Non-haz

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. Obtain 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. If breathing is difficult, give oxygen. Obtain medical attention. Ingestion Do not induce vomiting. Obtain medical attention. Notes to Physician Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Flash Point Method	Not applicable No information available.
Autoignition Temperature	No information available.
Explosion Limits Upper Lower	No data available No data available
Suitable Extinguishing Media	Substance is nonflammable; use agent most appropriate to extinguish surrounding fire
Unsuitable Extinguishing Media	No information available.
Hazardous Combustion Products	No information available.
Sensitivity to mechanical impact Sensitivity to static discharge	No information available. No information available.
Specific Hazards Arising from the Chemical 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 1	Flammability 0	Instability 1	Physical hazards N/A
			motability i	

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions	Use personal protective equipment. Ensure adequate ventilation. Avoid dust formation.
Environmental Precautions	Should not be released into the environment.
Methods for Containment and Clean Up	Sweep up or vacuum up spillage and collect in suitable container for disposal. Avoid dust formation.

7. HANDLING AND STORAGE

Handling

Wear personal protective equipment. Ensure adequate ventilation. Avoid dust formation. Do not breathe dust. Avoid contact with skin, eyes and clothing.

Storage

Keep containers tightly closed in a dry, cool and well-ventilated place.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering Measures

Ensure adequate ventilation, especially in confined areas. Ensure that eyewash stations and safety showers are close to the workstation location.

Exposure Guidelines

Component	ACGIH TLV	OSHA PEL	NIOSH IDLH
Silica, amorphous			IDLH: 3000 mg/m ³
			TWA: 6 mg/m ³

NIOSH IDLH: Immediately Dangerous to Life or Health

Personal Protective Equipment

Eye/face Protection

Skin and body protection Respiratory 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 Wear appropriate protective gloves and clothing to prevent skin exposure 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

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State
Appearance
odor
Odor Threshold
рН
Vapor Pressure
Vapor Density
Viscosity
Boiling Point/Range
Melting Point/Range
Decomposition temperature °C
Flash Point
Evaporation Rate
Specific Gravity

Solid White odorless No information available. Not applicable No information available. No information available. No information available.

9. PHYSICAL AND CHEMICAL PROPERTIES

Solubility log Pow Molecular Weight Molecular Formula Insoluble in water No data available 60.08 SiO2

10. STABILITY AND REACTIVITY

Stability	Stable under normal conditions. Hygroscopic.
Conditions to Avoid	Incompatible products. Exposure to moisture.
Incompatible Materials	Strong oxidizing agents, Strong acids, Strong bases
Hazardous Decomposition Products	None known
Hazardous Polymerization	Hazardous polymerization does not occur
Hazardous Reactions .	None under normal processing.

11. TOXICOLOGICAL INFORMATION

Acute Toxicity

Component Information

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
Silica, amorphous	5000 mg/kg (Rat)	2000 mg/kg (Rabbit)	2.2 mg/L (Rat)1 h

Irritation	Irritating to eyes and respiratory system
Toxicologically Synergistic Products	No information available.

Chronic Toxicity

Carcinogenicity

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

Component	ACGIH	IARC	NTP	OSHA	Mexico
Silica, amorphous	Not listed	group 3	Not listed	Not listed	Not listed

No information available.
No information available.

Other Adverse Effects	The toxicological properties have not been fully investigated See actual entry in RTECS for complete information.			
Endocrine Disruptor Information	No information available			
12. ECOLOGICAL INFORMATION				

Ecotoxicity

Component	Freshwater Algae		Freshwater Fish	Microtox	Water Flea	
Silica, amorphous	EC50: 440 mg/L/72h		Not listed	Not listed	EC50: 7600 mg/L/48h	
Persistence and Degrada	bility	No informatio	n available			
Fersistence and Degrada	Dinty	No mornatio				
Bioaccumulation/ Accum	ulation	No information available				
Mobility		No informatio	n available			

13. DISPOSAL CONSIDERATIONS

Waste Disposal MethodsChemical 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
TDG	Not regulated
ΙΑΤΑ	Not regulated
IMDG/IMO	Not regulated

15. REGULATORY INFORMATION

International Inventories

Component	TSCA	DSL	NDSL	EINECS	ELINCS	NLP	PICCS	ENCS	AICS	CHINA	KECL
Silica, amorphous	Х	Х	-	231-545- 4	-		Х	Х	Х	Х	KE- 31032 X

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.

U.S. Federal Regulations

TSCA 12(b) Not applicable

SARA 313 Not applicable

SARA 311/312 Hazardous Categorization

Acute Health Hazard	No
Chronic Health Hazard	No
Fire Hazard	No
Sudden Release of Pressure Hazard	No
Reactive Hazard	No

Clean Water Act

Not applicable

Clean Air Act

Not applicable

OSHA

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
Silica, amorphous	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 Non-controlled

16. OTHER INFORMATION

Prepared By	Regulatory Affairs Thermo Fisher Scientific Tel: (412) 490-8929
Creation Date	23-Oct-2009
Print Date	23-Oct-2009
Revision Summary	"***", and red text indicates revision

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 MSDS