

SDS-800-rev2 Issue Date: 01/02/2024

AMORPHOUS SILICA MICROSPHERES AND NANOSPHERES

1. IDENTIFICATION OF SUB	STANCE		
1.1 PRODUCT NAME(S)	Amorphous Silica Microspheres and Nanospheres		
1.2 PRODUCT IDENTIFIER(S)	SiO2MS, SiO2NS, SiO2MS-RHB		
1.3 INTENDED USE	Industrial and research applications		
1.4 SUPPLIER'S DETAILS	Cospheric LLC, PO Box 636, Somis, CA 93066		
	info@cospheric.com www.cospheric.com		
1.5 EMERGENCY TELEPHONE	+1-805-687-3747 Monday-Friday, 08:00-17:00 PST [UTC-8]		
2. HAZARDS IDENTIFICATIO) N		
2.1 HAZARD CLASSIFICATION	Not classified as a hazardous material.		
2.2 LABEL ELEMENTS	None.		
2.3 HAZARDS NOT OTHERWIS	E CLASSIFIED Spilled material is extremely slippery. Dust may cause irritation.		
3. COMPOSITION/INFORMATION ON INGREDIENTS			
INGREDIENT	CAS NUMBER % (W/W)		
Silicon dioxide, amorphous	7631-86-9 >99%		
4. FIRST AID MEASURES			
4.1 DESCRIPTION OF FIRST AID MEASURES			
Eye contact Rinse with plent	Rinse with plenty of water. Seek medical advice if symptoms persist.		
Skin contact If symptoms occ	If symptoms occur, wash with soap and water.		
Inhalation If symptoms occ	ation If symptoms occur, move to fresh air. Seek medical advice if necessary.		
Ingestion If symptoms occur, seek medical advice.			
4.2 IMPORTANT SYMPTOMS/EFFECTS, ACUTE OR DELAYED			
Inhalation of high concentrations of dust may cause respiratory irritation.			
5. FIRE-FIGHTING MEASURES			
5.1 EXTINGUISHING MEDIA			
Use extinguishing measures that are appropriate to local circumstances and the surrounding fire.			
5.2 SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE			
None known			

None known.

5.3 SPECIAL PROTECTIVE ACTIONS FOR FIRE-FIGHTERS

As in any fire, wear self-contained breathing apparatus pressure-demand (NIOSH approved) and full protective gear.

6. ACCIDENTIAL RELEASE MEASURES

6.1 PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES

Follow precautions for safe handling described in this safety data sheet (Section 8).



SDS-800-rev2 Issue Date: 01/02/2024

AMORPHOUS SILICA MICROSPHERES AND NANOSPHERES

6.2 ENVIRONMENTAL PRECAUTIONS

Dispose of any waste according to prescribed federal, state, local and competent authority guidelines.

6.3 METHODS AND MATERIAL FOR CONTAINMENT AND CLEAN UP

Collect spillage with shovel, broom or the like. Transfer to a container for disposal.

7. HANDLING AND STORAGE

7.1 PRECAUTIONS FOR SAFE HANDLING

Avoid handling practices that cause dust formation. Avoid inhalation of high concentrations of dust. Observe occupational exposure limits and minimize the risk of inhalation of dust.

7.2 CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES

Store in tightly closed original container in a dry, cool and well-ventilated place.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 CONTROL PARAMETERS

Silica, amorphous

OSHA Permissible Exposure Limit (PEL)

0.8 mg/m³

The OSHA PEL reported as 80 mg/m³ \div silica; 0.8 mg/m³ is the limit for 100% amorphous silica.

8.2 ENGINEERING CONTROLS

Avoid handling practices that cause dust formation. Use local exhaust ventilation to prevent or control exposure.

8.3 INDIVIDUAL PROTECTION MEASURES (PERSONAL PROTECTIVE EQUIPMENT)

Respiratory protection: When handling practices cause dust formation, select respiratory protection appropriate for the particle size of the material.

Eye/face protection: Chemical goggles.

Skin protection: Wear suitable protective clothing and gloves.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	White solid spherical particles
Relative density	Per product specification (1-2g/cc)
Softening Temperature	Per product specification
Flammability	Not classified as flammable.
Flammable limits	Not-applicable
Auto-ignition temperature	Not-applicable
Decomposition temperature	No information available
Odor	Odorless
Vapor pressure	Not-applicable



SDS-800-rev2 Issue Date: 01/02/2024

AMORPHOUS SILICA MICROSPHERES AND NANOSPHERES

Vapor density		Not-applicable	
рН		Not-applicable	
Melting point		Not-applicable	
Solubility in wat	er	Insoluble	
Initial boiling po	pint	Not-applicable	
Flash point		Not-applicable	
Evaporation rate		Not-applicable	
Partition coefficient		Not-applicable	
Viscosity		Not-applicable	
10. STABILIT	Y AND REACTIN	νιτγ	
Reactivity		Non-reactive under normal conditions of use.	
Chemical stabili	ty	Stable under normal conditions of use.	
11. TOXICOL	OGICAL INFOR	MATION	
Likely route(s) of exposure		Dermal, inhalation	
SIGNS AND SY	MPTOMS OF EX	POSURE	
Eye contact	Direct contact w include pain, rec	ontact with eyes may cause temporary mechanical irritation. Signs and symptoms may pain, redness.	
Skin contact		tact with skin may cause sensitization in hypersensitive individuals. Signs and symptoms de redness, pain and itching.	
Inhalation	Inhalation above	alation above recommended exposure levels may cause respiratory irritation including cough.	
Ingestion	No harmful effeo swallowed.	Io harmful effects expected in amounts likely to be ingested by accident. May cause discomfort if	
TOXICOLOGIC	AL DATA		
Acute toxicity		Oral LD50>5000 mg/kg (rat)	
		4-hour LC ₅₀ >0.14mg/L (rat)	
Skin corrosion/irritation		Non-irritating (rabbit)	
Serious eye damage/eye irritation		Non-irritating (rabbit)	
Respiratory or skin sensitization		No information available/not sufficient for classification	
Germ cell mutagenicity		Not mutagenic (in vitro and in vivo)	
Carcinogenicity		Not listed as a carcinogen (OSHA, NTP, IARC)	
Reproductive toxicity		No information available/not sufficient for classification	
STOT-single exposure		No information available/not sufficient for classification	
STOT-repeated exposure		No information available/not sufficient for classification	
Aspiration hazard		No information available/not sufficient for classification	



SDS-800-rev2 Issue Date: 01/02/2024

AMORPHOUS SILICA MICROSPHERES AND NANOSPHERES

12. ECOLOGICAL INFORMATION

ToxicityNo information availablePersistence and degradabilityNo information availableBioaccumulation potentialNo information availableMobility in soilNo information available

13. DISPOSAL CONSIDERATIONS

Dispose of any waste according to prescribed federal, state, local and competent authority guidelines.

14. TRANSPORTATION INFORMATION

This product is not subject to regulations for the transport of hazardous materials (DOT, IATA, IMO).

15. REGULATORY INFORMATION

This SDS has been prepared to meet the US OHSA Hazard Communication Standard, 29 CFR 1910.1200.

16. EU REACH COMPLIANCE DECLARATION

The product(s) listed above do not contain any of the REACH SVHC compounds in concentrations above 1000PPM.

17. OTHER INFORMATION

The information contained in this document is correct to the best of our knowledge at the date of publication. It should not be viewed as all inclusive, but as a guide only. It does not represent any guarantee of the properties of the product. Cospheric LLC shall not be held liable for any damage resulting from handling of or from contact with the above product. For these reasons, it is important that product users carry out their own tests to satisfy themselves as to the suitability of the safety precautions for their own intended applications.

Copyright, 2024, Cospheric LLC. All rights reserved.