

SDS-101-rev2 Issue Date: 01/02/2024

SILVER-COATED SOLID GLASS MICROSPHERES

1. IDENTIFICATION OF SUB	STANCE	
1.1 PRODUCT NAME(S)	Silver-Coated Solid Glass Microspheres	
1.2 PRODUCT IDENTIFIER(S)	SLGMS-AG	
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		
2.1 HAZARD CLASSIFICATION	Not classified as a hazardous material.	
GHS Classification	H400 Very toxic to aquatic life	
	H410 Very toxic to aquatic life with long lasting effects	
2.2 LABEL ELEMENTS	None per US OHSA Hazard Communication Standard, 29 CFR 1910.1200.	
2.3 HAZARDS NOT OTHERWIS	E CLASSIFIED Spilled material is extremely slippery. Dust may cause irritation.	
3. COMPOSITION/INFORMA	ATION ON INGREDIENTS	
INGREDIENT	CAS NUMBER % (W/W)	
Glass oxide microspheres	308066-94-6 >60%	
Silver	7440-22-4 <40%	
4. FIRST AID MEASURES		
4.1 DESCRIPTION OF FIRST AI	D MEASURES	
Eye contact Rinse with plent	y 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	If symptoms occur, move to fresh air. Seek medical advice if necessary.	
Ingestion If symptoms occ	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		

Product not classified as flammable, but will burn on contact with flame or exposure to high temperature.

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.



SDS-101-rev2 Issue Date: 01/02/2024

SILVER-COATED SOLID GLASS MICROSPHERES

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).

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. Eliminate sources of ignition.

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. Keep away from sources of ignition.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 CONTROL PARAMETERS

Nuisance Dust (Particles Not Otherwise Regulated)				
OSHA	Permissible Exposure Limit (PEL)	Respirable fraction	5mg/m ³	
		Total dust	15mg/m ³	
Silver				
OSHA	Permissible Exposure Limit (PEL) (dust)		0.1mg/m ³	
ACGIH	Threshold Limit Value Time Weighted Average (TLV-TWA)0.1mg/m3		0.1mg/m ³	

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	Solid spherical particles – Silver.
Relative density	Per product specification
Softening Temperature	Per product specification
Flammability	Not classified as flammable.
Flammable limits	Not-applicable



SDS-101-rev2 Issue Date: 01/02/2024

SILVER-COATED SOLID GLASS MICROSPHERES

A		
Auto-ignition temperature		Not-applicable
Decomposition	temperature	No information available
Odor		Odorless
Vapor pressure		Not-applicable
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 rat	e	Not-applicable
Partition coeffic	ient	Not-applicable
Viscosity		Not-applicable
10. STABILIT	Y AND REACTIVITY	
Reactivity		Avoid contact with: acetylene, acetylene compounds, ammonia, aziridine, bromide azide, 3-bromopropyne, carboxylic acids, chlorine trifluoride, ethylene oxide, ethyl hydroperoxide, ethyleneimine, hydrogen peroxide, iodoform, nitric acid, ozonides, oxalic acid, peroxomonosulfuf.
Chemical stabili	ty	Stable
11. TOXICOL	OGICAL INFORMATIO	N
Likely route(s) of exposure		Dermal, inhalation
SIGNS AND SY	MPTOMS OF EXPOSU	RE
Eye contact		
Skin contact	Direct contact with skin may cause sensitization in hypersensitive individuals. Signs and symptoms may include redness, pain and itching. Prolonged or repeated exposure to silver may cause argyria – gray pigmentation of eyes, skin and mucous membranes.	
Inhalation	Inhalation above recom	mended exposure levels may cause respiratory irritation including cough.
Ingestion	Signs and symptoms may include abdominal pain, vomiting and diarrhea.	
TOXICOLOGICAL DATA (SPECIFIC TO SILVER UNLESS NOTED OTHERWISE)		
Acute toxicity	Oral L	.D50>2000 mg/kg (rat)
Skin corrosion/i	rritation No in	formation available/not sufficient for classification
Serious eye damage/eye irritation No info		formation available/not sufficient for classification
Respiratory or skin sensitization No information available/not sufficient for classification		



SDS-101-rev2 Issue Date: 01/02/2024

SILVER-COATED SOLID GLASS MICROSPHERES

Germ cell mutagenicity	Not mutagenic	
Carcinogenicity	Not listed as a carcinogen (OSHA, NTP, IARC)	
Reproductive toxicity	Not a reproductive or developmental toxicant	
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	

12. ECOLOGICAL INFORMATION

Toxicity	Contains silver which is toxic to terrestrial and aquatic organisms.
	LC₅₀ (96-hr) = 1.2ug/L (Pimephales promelas)
	EC10 = 0.19ug/L (Salmo trutta) (OECD 201)
Persistence and degradability	No information available
Bioaccumulation potential	No information available
Mobility in soil	No information available

13. DISPOSAL CONSIDERATIONS

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

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.