



## Material Safety Data Sheet

TSI Incorporated  
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Shoreview, MN 55126-3996

24 hour Emergency telephone  
CHEMTREC: 1-800-424-9300

Outside US and Canada  
Chemtrec: 703-527-3887

Note: CHEMTREC number to be used only in the event of chemical emergencies involving a spill, leak, fire, exposure or accident involving chemicals.

All non-emergency questions should be directed to Customer Service (1-800-874-2811) for assistance.

### Section 1.

### CHEMICAL PRODUCT SECTION

**Product Name:** Conduct-O-Fil® Silver Coated Hollow Glass Spheres

**Synonyms:** Soda-Lime/borosilicate Glass with Silver Coating

**Chemical Name:** Silver Metal Coated Glass

**Product Number:** 10089-SLVR

**Section 2.****COMPOSITION/INFORMATION ON INGREDIENTS**

<b>Chemical and Common Name</b>	<b>CAS Registry Number</b>	<b>OSHA PEL</b>	<b>ACGIH TLV</b>
Silver Coating	7440-22-4	0.01mg/m <sup>3</sup>	0.1 mg/m <sup>3</sup>
Nuisance Dust (glass only)		15mg/m <sup>3</sup>	10mg/m <sup>3</sup>

**Section 3.****PHYSICAL AND CHEMICAL PROPERTIES**

<b>Boiling point:</b>	N/A
<b>Vapor Pressure:</b>	Silver @ 100mm 1865 degree C.
<b>Vapor Density:</b>	N/A
<b>Solubility in water:</b>	Insoluble
<b>Appearance and Odor:</b>	White Powder. Odorless
<b>Specific gravity:</b>	0.4 – 0.9 g/cc depending on substrate
<b>Softening Point:</b>	Not Known
<b>Evaporation Rate:</b> (Butyl Acetate=1)	N/A

**Section 4.****FIRE & EXPLOSION HAZARD DATA**

<b>Flash Point:</b>	(method used) N/A
<b>Flammable limits:</b>	LEL UEL N/A N/A
<b>Extinguishing Media:</b>	CO <sub>2</sub> , Dry Chemical, Foam
<b>Special Fire-fighting procedures:</b>	Wear NIOSH approved mask for metal fumes, if material is exposed to high heat.
<b>Unusual Fire and Explosion Hazards:</b>	Silver dust moderately flammable when exposed to flame or chemical oxidizers.

**Section 5.****STABILITY AND REACTIVITY**

<b>Stability:</b>	High acidity, dusty conditions with heat, sparks or open flames.
<b>Incompatibility (Materials to Avoid):</b>	Acetylene, ammonia, hydrogen peroxide.
<b>Hazardous decomposition or Byproducts:</b>	Silver and Silver Oxide fumes.
<b>Hazardous Polymerization:</b>	Will not occur.
<b>Conditions to Avoid:</b>	None.

**Section 6.****HEALTH HAZARD**

<b>Routes of Entry:</b>	Inhalation? X	Skin? X	Ingestions? X
<b>Health Hazards (Acute and Chronic):</b>	Prolonged absorption of silver compounds can lead to grayish-blue discoloration of skin know as argyria or argyrosis.		
<b>Carcinogenicity:</b>	NTP? Not listed	IARC Monographs? Not listed	OSHA Regulated? Not listed
<b>Signs and Symtonms of Exposure:</b>	Respiratory or eye irritation. Grayish-blue discoloration of skin.		
<b>Medical Conditions Generally Aggravated By Exposure:</b>	Chronic lung conditions may be aggravated by exposure to high concentrations of dust.		

**Section 7.****EMERGENCY AND FIRST AID MEASURES**

<b>Eye:</b>	In case of contact, immediately flush eyes with plenty of water.
<b>Skin:</b>	Wash soap with water.
<b>Inhalation:</b>	Remove to fresh air.
<b>Ingestion:</b>	Give water, induce vomiting, call physician.

**Sections 8.****OTHER INFORMATION**

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