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## Material Safety Data Sheet

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### SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

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**PRODUCT NAME:** SiO<sub>2</sub>NS, Silica Nanospheres  
**SYNONYMS:** Ceramic Spheres, Silica Microspheres  
**MANUFACTURER:** Cospheric LLC, PO Box 6762, Santa Barbara, CA 93160  
info@cospheric.com  
**EMERGENCY PHONE:** (805) 687-3747 Hours of operation M-F 9am to 5pm PST

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### SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

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INGREDIENT:	CAS NO.	% WT
Silica	7631-86-9	>99

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### SECTION 3: HAZARDS IDENTIFICATION

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**POTENTIAL HEALTH EFFECTS:**

Eye contact - may cause eye irritation  
Skin contact - may cause skin irritation  
Ingestion - may be harmful if swallowed  
Inhalation - may cause respiratory tract irritation  
Slipping hazard can be present when spilled on floor.

**PRIMARY ROUTES OF EXPOSURE:** Respiratory, skin and eye contact.

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### SECTION 4: FIRST AID MEASURES

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**EYES:** Flush irritated eye with plenty of water for at least 15 minutes, occasionally lifting the upper and lower lids. If condition does not improve, seek medical care.

**SKIN:** Flush skin with plenty of soap and water for at least 15 minutes, while removing contaminated clothing and shoes. If condition does not improve, seek medical care.

**INHALATION:** Remove victim to well-ventilated area. If condition does not improve, seek medical care.

**INGESTION:** Not considered a likely route of exposure. Seek immediate medical care.

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### SECTION 5: FIRE-FIGHTING MEASURES

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**FLAMMABILITY:** This material is noncombustible.

**EXTINGUISHING MEDIA:** This material is compatible with all extinguishing media.

**FIRE FIGHTING EQUIPMENT:** The following protective equipment for fire fighters is recommended when this material is present in the area of a fire: body-covering protective clothing, chemical resistant gloves, rubber boots, and self-contained breathing apparatus (SCBA).

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**SECTION 6: ACCIDENTAL RELEASE MEASURES**

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**PERSONAL PRECAUTIONS:** Put on appropriate NIOHS/MSHA approved respirator. Wear chemical gloves, goggles, and body-covering protective clothing.

**ENVIRONMENTAL HAZARDS:** Not an extremely hazardous substance under SARA Title III Section 302. Not a toxic chemical under SARA Title III Section 313. Hazard categories under SARA Title III Sections 311/312: Acute.

**SPILL CLEANUP:** Carefully shovel or sweep up spilled material and place in suitable container. Avoid generating dust. Use appropriate Personal Protective Equipment. In case of contact with water, prevent runoff from entering storm sewers and ditches which lead to natural waterways.

**CERCLA RQ:** There is no CERCLA reportable quantity for this material. If a spill goes off site, notification of state and local authorities is recommended.

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**SECTION 7: HANDLING AND STORAGE**

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**HANDLING:** Avoid dust formation. Avoid contact with eyes, skin and clothing. Avoid breathing dust. Keep container closed. Promptly clean up spills. Wash thoroughly after handling and before mealtimes. Follow all MSDS and label precautions even after container is emptied since it may contain residual material.

**STORAGE:** Store containers closed. Containers which are opened should be closed, and kept upright to prevent leakage and contamination. In case of high humidity or extended storage use plastic bags to enclose product containers to avoid caking.

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**SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

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**EXPOSURE LEVELS:**

<b>Component:</b>	<b>OSHA PEL</b>	<b>ACGIH TLV</b>	<b>Unit</b>
Nuisance dust (>5um)	15	10	mg/m <sup>3</sup>
Nuisance Dust Respirable (<5um)	5	5	mg/m <sup>3</sup>

**ENGINEERING CONTROLS:**

Ventilation: Provide adequate general mechanical exhaust.

Safety shower and eyewash fountain should be within direct access.

**PERSONAL PROTECTION:**

Eye Protection: Wear chemical goggles

Skin Protection: Wear body-covering protective clothing and gloves.

Respiratory Protection: Use NIOSH/MSHA approved respirator as needed to control exposure.

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**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

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**APPEARANCE:** White Powder.

**ODOR:** Odorless

**PHYSICAL STATE:** Fine Dry powder

**SPECIFIC GRAVITY:** 1.6-2.0 g/cc

**SOLUBILITY IN WATER:** Insoluble

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**SECTION 10: STABILITY AND REACTIVITY**

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**STABILITY:** Stable

**INCOMPATIBILITY (MATERIAL TO AVOID):** Strong acids or base materials such as Hydrofluoric Acid and Sodium Hydroxide.

**HAZARDOUS DECOMPOSITION BY-PRODUCTS:** None.

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**SECTION 11: TOXICOLOGICAL INFORMATION**

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**ACUTE DATA:**

Not Known to date.

**SUBCHROMIC DATA:**

Not Known to date.

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**SECTION 12: ECOLOGICAL INFORMATION**

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**REMARKS:** This product has not been tested for ecotoxicity potential.

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**SECTION 13: DISPOSAL CONSIDERATIONS**

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**REMARKS:** Responsibility for proper waste disposal rests with the generator of the waste. Dispose of any waste material in accordance with all applicable federal, state and local regulations. Note that these regulations may also apply to empty containers, liners and rinsate. Processing, use, dilution or contamination of this product may cause its physical and chemical properties to change.

**RCRA HAZARD CLASS:** Non-Hazardous

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**SECTION 14: TRANSPORT INFORMATION**

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Not regulated, Considered non-hazardous under transport regulations

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**SECTION 15: REGULATORY INFORMATION**

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**U.S. FEDERAL REGULATIONS:**

**TSCA (Toxic Substance Control Act):** All Components of this product are included on the TSCA inventory in compliance with the toxic substances control act, 15 U.S.C. 2601 ET.SEQ.

**CERCLA (Comprehensive Environmental response compensation, and liability act):** This is not a regulated material under 40 CFR 117.302. Notification of spills is not required.

**SARA TITLE III (Superfund amendments and reauthorization act):** This product contains no known chemicals contained on the list of toxic chemicals subject to the reporting requirements of section 313 of the emergency planning & community right to know act of 1986 & of 40 CFR372. Not an extremely hazardous substance under Section 302. Hazard Categories under Section 311 and 312: Acute

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**SECTION 16: OTHER INFORMATION**

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**DISCLAIMER:**

The statements made here are intended to describe the product with regard to necessary safety precautions. They do not guarantee special characteristics. This information is furnished without warranty, expressed or implied, except that it is accurate to the best of our current knowledge. The conditions or methods of handling, storage, use and disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of this product. This MSDS was prepared and is to be used for this product. If the product is used as a component in another product, this MSDS information may not be applicable.

**PREPARATION INFORMATION:** Updated on 5/08/2014