

Material Safety Data Sheet

SECTION 1 – CHEMICAL PRODUCT AND COMPANY INFORMATION

Product Type: Water Treatment Media

Product Names: SCZ

Chemical Family: Proprietary

Manufacturer's Name: Siemens Industry, Inc. - Water Technologies Business Unit

Address: 2430 Rose Place, Roseville, MN 55113

Product/Technical Information Phone Number: (651) 638-1300

Medical/Handling Emergency Phone Number: Call CHEMTREC at (800) 424-9300
24 hours a day every day

Transportation Emergency Phone Number: Call CHEMTREC at (800) 424-9300
24 hours a day every day

Issue Date: December 2009

Revision Date/Revision Number: April 2011/ Rev 1

SECTION 2– COMPOSITION INFORMATION

<u>Chemical Name</u>	<u>Percent by Weight</u>	<u>CAS#</u>
Proprietary	> 98	Proprietary
Quartz	< 2	14808-60-7

SECTION 3 – HAZARDS IDENTIFICATION

Appearance & Odor: Granular or powdered black and grey solid

Emergency Overview:

- May cause eye irritation due to mechanical abrasion
- Spills make the floor slippery

Fire & Explosion Hazards: This material will smolder if ignited or heated to red heat. May form explosive dust concentrations in air.

Primary Route(s) of Exposure: Eye or skin contact

Inhalation – Acute Effects: Large quantities of dusts may irritate the respiratory tract.

Skin Contact – Acute Effects: No adverse effects are expected from brief skin contact.

Eye Contact – Acute Effects: The dusts may cause eye irritation, redness, and moderate corneal injury due to mechanical abrasion. The effects are likely to heal.

Ingestion – Acute Effects: Single dose oral toxicity is considered to be low. No hazards anticipated from swallowing small amounts incidental to normal handling operation. Swallowing large amounts may cause irritation to the gastrointestinal tract.

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SECTION 4 – FIRST AID MEASURES

Inhalation First Aid: Remove affected person from area to fresh air. Give artificial respiration ONLY if breathing has stopped and give CPR ONLY if there is no breathing and no pulse. Obtain medical attention.

Skin Contact First Aid: Immediately remove clothing from affected and wash skin vigorously with flowing water. Clothing should be washed before reuse. Seek medical attention if irritation develops.

Eye Contact First Aid: Immediately irrigate eyes with flowing water continuously for 15 minutes while holding eyes open. Contacts should be removed before or during flushing. Obtain medical attention.

Ingestion First Aid: No adverse effects anticipated by this route of exposure incidental to proper industrial handling. If ingestion does occur, if victim is alert and not convulsing rinse mouth with water and give plenty of water to drink. If spontaneous vomiting occurs, have affected person lean forward with head down to avoid breathing in of vomitus. Rinse mouth again and give more water to drink. Obtain medical attention.

Medical Conditions Aggravated: Breathing large quantities of this material may aggravate chronic asthma and other pulmonary diseases.

Note to Physician: No specific antidote. Supportive care. Treatment based on judgment of the physician in response to reactions of the patient.

SECTION 5 – FIRE FIGHTING MEASURES

Flash Point/Method: Not applicable.

Extinguishing Media: Water, carbon dioxide, dry chemical

Fire Fighting Procedures: Keep people away. Isolate fire area and deny unnecessary entry. Cool surrounding area with water to localize fire zone. Soak thoroughly with water to cool and prevent reignition.

Use NIOSH approved positive-pressure self-contained breathing apparatus (SCBA) and protective fire fighting clothing (includes fire fighting helmet, coat, pants, boots and gloves). If protective equipment is not available or not used, fight fire from a protected location or a safe distance.

Fire & Explosion Hazards: This material will smolder if ignited or heated to red heat. Carbon monoxide gas may be formed if this material is ignited under low oxygen conditions. Dusts at sufficient concentrations may form explosive mixtures in air.

Hazardous Products of Decomposition and/or Combustion: May include carbon monoxide and carbon dioxide.

NFPA Ratings:

HEALTH - 1 FLAMMABILITY - 1 REACTIVITY - 0

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SECTION 6 – ACCIDENTAL RELEASE MEASURES

Spill/Leak Procedures: Isolate spill area to prevent falls as material can be a slipping hazard. Avoid contact with eyes and skin. Material is heavier than water and has limited water solubility. It will collect on the lowest surface.

Cleanup: Clean up floor area. Sweep up.

Regulatory Requirements: Follow all applicable Federal, State, Local, or Provincial regulations.

Disposal: DO NOT DUMP INTO ANY SEWERS, ON THE GROUND, OR INTO ANY BODY OF WATER. All disposal methods must be in compliance with all Federal, State, Local and Provincial laws and regulations. Regulations may vary in different locations. Waste characterizations and compliance with applicable laws are the responsibility solely of the waste generator.

SECTION 7 – HANDLING AND STORAGE

Handling: Practice reasonable care and caution. Avoid dust cloud formation and control ignition sources.

Storage: Keep containers tightly closed when not in use. Store between 35°F - 100°F.

General Comments: Containers of this material may be hazardous when empty since they retain product residues (dust, solids); observe all warnings and precautions listed for the product.

SECTION 8 – PERSONAL PROTECTION/ EXPOSURE CONTROL

Respiratory Protection: Wear a NIOSH-approved half-face respirator equipped with dust cartridges.

Skin Protection: Wear gloves impervious to this material to prevent skin contact.

Eye Protection: Wear safety glasses. Wear chemical goggles if product contact is likely. Do not wear contact lenses while working with this product.

Ventilation Protection: Provide local exhaust ventilation.

Other Protection: Never eat, drink, or smoke in work areas. Practice good personal hygiene after using this material, especially before eating, drinking, smoking, using the toilet, or applying cosmetics.

Safety showers, with quick opening valves which stay open, and eye wash fountains, or other means of washing the eyes with a gentle flow of cool to tepid tap water, should be readily available in all areas where this material is handled or stored. Water should be supplied through insulated and heat-traced lines to prevent freeze-ups in cold weather.

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Exposure Limits:

Exposure limits have not been developed for this product. However, for quartz, a component of this material:

	OSHA TWA PEL, mg / m ³	ACGIH TWA TLV, mg / m ³
Quartz, respirable	$\frac{10}{\% \text{ Silica} + 2}$	0.025

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

Appearance & Odor: Granular or powdered black solid.

Density: 35 – 45 lb / ft³ **Solubility in Water:** Insoluble

pH: 8.5 – 12 (aqueous solution)

SECTION 10 – STABILITY AND REACTIVITY

Stability: Stable under normal handling and storage conditions.

Incompatibilities: Avoid contact with strong mineral acids.

Polymerization: Hazardous polymerization cannot occur.

Decomposition: May liberate carbon monoxide and hydrogen sulfide gasses upon contact with strong mineral acids.

Conditions to Avoid: None know.

SECTION 11 – TOXICOLOGICAL INFORMATION

Chronic Effects: Crystalline silica is a minor component of this material. However, inhalation and retention of respirable crystalline silica dust may cause silicosis.

Chronic silicosis is the most common form of silicosis and can occur after many years of exposure to relatively low levels of respirable crystalline silica dust. Simple silicosis is characterized by small lung lesions in the upper lung. Often, simple silicosis is not associated with symptoms or detectable lung changes.

Other forms of silicosis are possible, including accelerated silicosis which is similar to chronic silicosis but progresses more rapidly, and acute silicosis which can occur with exposures to high concentrations of respirable crystalline silica dust over a very short period of time. Acute silicosis is fatal.

Carcinogenicity: The IARC has classified crystalline silica as Group 1, Carcinogenic to Humans. The NTP has classified crystalline silica as a Known Human Carcinogen.

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SECTION 12 – ECOLOGICAL INFORMATION

The environmental fate and ecological toxicity are not known.

SECTION 13 – DISPOSAL CONSIDERATIONS

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Cleanup: Clean up floor area. Sweep up.

Regulatory Requirements: Follow all applicable Federal, State, Local, or Provincial regulations.

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Provincial laws and regulations. Regulations may vary in different locations. Waste characterizations and compliance with applicable laws are the responsibility solely of the waste generator.

SECTION 14 – TRANSPORTATION INFORMATION

Domestic Transportation: This material is not regulated as a hazardous material for domestic transportation purposes.

International Transportation: This material is not regulated as a dangerous good for international transportation purposes.

SECTION 15 – REGULATORY INFORMATION

US Regulations:

SARA HAZARD CATEGORY:

Acute: yes

Chronic: no

Fire: no

Pressure Release: no

Reactivity: no

SECTION 16 – OTHER INFORMATION

Disclaimer: The information contained herein is based on data considered accurate. However, no warranty is expressed or implied regarding the accuracy of these data or the results to be obtained from the user thereof. It is the buyer's responsibility to ensure that its activities comply with federal, state, provincial and local laws.

Revision Indicator: April 2011, Revised Section 1 (Updated manufacturer's name)