

# Safety Data Sheet

## AMI-SIL® SAS & SCAS SERIES

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### 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

<u>Trade Names/Synonyms:</u>	AMI-SIL® coated with silicone elastomer/amorphous silica, coated with silicone rubber, in various forms - cloth, tapes, blankets, tubing, etc.
<u>Product Identification:</u>	SAS & SCAS series.
<u>Chemical Name/Synonyms:</u>	Continuous filament silicon dioxide (SiO <sub>2</sub> ) coated with compounded polysiloxane polymer/fibrous silica, amorphous silica chemical family coated with silicone rubber.
<u>Manufacturer's Name:</u>	Auburn Manufacturing, Inc P. O. Box 220 Mechanic Falls, ME 04256 207/345-8271

### 2. HAZARDS IDENTIFICATION

OSHA HCS Status: This product is not a hazardous chemical, as defined by OSHA at 29 CFR 1910.1200



#### Precautionary Statements:

- P281: Wear personal protective equipment as required
- P302: If on skin, wash with mild soap and running water
- P304: If inhaled, move individual to fresh air. Seek medical attention if irritation persists
- P305: If in eyes, flush eyes at least 15 minutes; seek medical attention if irritation persists

Hazard Statements: N/A

### 3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Abstracts Service Number: N/A

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### 3. COMPOSITION / INFORMATION ON INGREDIENTS (CON'T)

<u>Hazardous Ingredients</u>	<u>Weight %</u>	<u>OSHA-PEL</u>	<u>ACGIH-TLV</u>	<u>OTHER</u>
Silicone dioxide, continuous filament	≥ 50 to ≥ 70	a.	10 mg/ m <sup>3</sup> . 8-hr TWA	none known
Compounded polysiloxane polymer	15 to 40	-----	none known-----	-----

a. OSHA has not established a specific PEL for fibrous silicone dioxide (amorphous silica). It is considered to be a "particulate not otherwise regulated" (PNOR) and is covered under the OSHA nuisance dust PEL's of 5 mg/m<sup>3</sup> for the respirable dust fraction and 15 mg/m<sup>3</sup> for the total dust fraction for an 8-hr TWA (Time Weighted Average). Chemically, AMI-SIL<sup>®</sup> is amorphous silica which has an OSHA limit of 20 mppcf or 80 mg/m<sup>3</sup>.

#### Nonhazardous Ingredients

Sizing/bound water	≤ 10	-----	none established-----	-----
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### 4. FIRST AID MEASURES

Inhalation: Move individual to fresh air. Seek medical attention if irritation persists.

Skin Contact: Wash with mild soap and running water. Use a washcloth to help remove fibers. To avoid further irritation do not rub or scratch irritated areas. Rubbing or scratching may force fibers into the skin. Seek medical attention if irritation persists.

Eye Contact: Flush eyes with flowing water for at least 15 minutes. Seek medical attention if irritation persists.

Ingestion: N. A. (Not Applicable)

### 5. FIRE FIGHTING MEASURES

Extinguishing Media: Water, foam, carbon dioxide, dry chemical

Special Fire-Fighting Instructions: In a sustained fire, self contained breathing apparatus should be worn.

Unusual Fire and Explosion Hazards: None known.

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### 6. ACCIDENTAL RELEASE MEASURES

ACTION TO TAKE FOR SPILLS ( Use Appropriate Safety Equipment/PPE):

For solid product, not applicable.

For dusts and fibers generated during fabrication, vacuum and containerize.

### 7. HANDLING, STORAGE AND DISPOSAL

Handling: See Section 8.

The toxicologic data indicate that these materials should be handled with caution. The handling practices described in Section 8 of this MSDS must be strictly followed.

Product which has been in service at elevated temperature ( > 1800<sup>o</sup> F ) may undergo partial conversion to cristobalite, a form of crystalline silica. This reaction occurs at the lining hot face. As a consequence, this material becomes more friable (brittle); special caution must be taken to minimize generation of airborne dust. The amount of cristobalite present will depend on the temperature and length in service.

IARC has recently reviewed the animal, human and other relevant experimental data on silica in order to critically evaluate and classify the cancer causing potential. Based on its review, IARC has now classified crystalline silica/cristobalite as a Group 1 carcinogen. Crystalline silica inhaled in the form of quartz or cristobalite from industrial sources was classified as ***carcinogenic to humans*** on the basis of a relatively large number of epidemiological studies that together provided ***sufficient evidence*** in humans for the carcinogenicity of inhaled crystalline silica under the conditions specified. Crystalline silica is also listed by the NTP as a substance reasonably anticipated to be a carcinogen.

Special care should be taken when working with "used" material to minimize the generation of dust. The OSHA permissible exposure limit (PEL) for cristobalite is 0.05 mg/m<sup>3</sup> (resp.). The ACGIH threshold limit value (TLV) for cristobalite is 0.05 mg/m<sup>3</sup> (resp.). (ACGIH 1989 - 90). If exposure limits are exceeded or if irritation is experienced, NIOSH approved respiratory protection should be worn. NIOSH approved respirator for particulates with a TLV of less than 0.05 mg/m<sup>3</sup> is generally acceptable, except that supplied air respirators are required for high airborne dust concentrations.

Storage: Store in a clean, dry area. Keep containers closed.

Disposal: Dispose of in accordance with federal, state and local regulations as a solid nonhazardous waste.

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### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Ventilation: General dilution ventilation and/or local exhaust ventilation should be provided, as necessary, to maintain exposures below PEL's or TLV's. **Adequate ventilation must be provided at elevated temperatures.** The base silica material is noncombustible; however, at temperatures above 250°F, the coating may generate some light steam and/or smoke for a brief period which may require local ventilation and/or exhaust.

Respiratory Protection: A properly fitted NIOSH/MHSA approved disposable dust respirator such as the 3M model 8210 or model 9900 (in high humidity environments) or equivalent should be used when: high dust levels are countered; the level of fibers in the air exceeds the OSHA permissible exposure limits; or if irritation occurs. Use respiratory protection in accordance with your company's respiratory protection program and OSHA regulations under 29 CFR 1910.134.

Eye Protection: Safety glasses, goggles or face shields should be worn whenever fiberglass materials are being handled.

Protective Clothing: Wear loose fitting, long sleeved shirt that covers to the base of the neck, and long pants. Skin irritation from exposure to fiberglass is known to occur chiefly at pressure points such as around the neck, wrist and waist. Wear gloves when handling product.

Work/Hygienic Practices: Handle in accordance with good industrial hygiene and safety practices:

- = Avoid unnecessary exposure to dusts and fibers
- = Remove fibers from skin after exposure
- = Be careful not to rub or scratch irritated areas. Rubbing or scratching may force the fibers into the skin. The fibers should be washed off. Use of barrier creams can, in some instances, be helpful.
- = Use vacuum equipment to remove fibers and dusts from clothing. **COMPRESSED AIR SHOULD NEVER BE USED.** Always wash work clothes separately and wipe out the washer/sink in order to prevent loose glass fibers from getting on other clothes.
- = Keep the work area clean of any dusts and fibers generated during fabrication. Use vacuum equipment to clean up dusts and fibers. Avoid sweeping or using compressed air as these techniques resuspend dusts and fibers into the air.
- = Have access to safety showers and eye wash fountains.
- = For professional use only. **Keep out of children's reach.**

Exposure Limits (TLVS): N/A

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### 9. PHYSICAL AND CHEMICAL PROPERTIES

<u>Melting Point (Softening):</u> NM (Not Measured)	<u>Boiling Point(°C):</u> N/A (Not Applicable)
<u>Specific Gravity (Bare Glass):</u> NM	<u>Percent Volatile:</u> N/A
<u>Vapor Pressure:</u> (mm Hg): N/A	<u>Vapor Density</u> (Air = 1): N/A
<u>Evaporative Rate</u> (Ethyl Ether = 1): N/A	<u>Solubility in Water:</u> Not soluble
<u>Appearance and Odor:</u> Flexible coated fabric of various colors with no odor.	
<u>pH:</u> N/A	<u>Relative Density:</u> N/A
<u>Upper/Lower Flammability or Exposure Limits:</u> N/A	
<u>Freezing Point:</u> N/A	<u>Flash Point:</u> N/A
<u>Partition coefficient (n-octanol/water):</u> N/A	<u>Auto Ignition Temperature:</u> N/A
<u>Decomposition Temperature:</u> N/A	<u>Viscosity:</u> N/A

### 10. STABILITY AND REACTIVITY

Stability (Conditions to Avoid): Product is stable.

Incompatibility (Materials to Avoid): Basic phosphates, hydrofluoric acid, some oxides and hydroxides.

Hazardous Decomposition Products: Sizings, binders or coatings may decompose in a fire. Primary decomposition products include carbon monoxide, carbon dioxide, silicon dioxide, other hydrocarbons and water.

Hazardous Polymerization: Will not occur

Flash Point (°F): N/A (Not Applicable)

Auto Ignition Temperature (°F): N/A

Flammability Limits (%): LEL: N/A UEL: N/A

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### 11. TOXICOLOGICAL INFORMATION

Primary Routes of Exposure: Inhalation and skin contact.

Health Hazards (Including acute and chronic effects and symptoms of overexposure):

<u>ACUTE:</u>	<u>Inhalation:</u>	Inhalation of dusts and fibers may result in irritation of the upper respiratory tract (mouth, nose and throat).
	<u>Skin Contact:</u>	Skin contact with dusts and fibers may produce itching and temporary mechanical irritation.
	<u>Eye Contact:</u>	Eye contact with fibers and dusts may produce temporary mechanical irritation.
	<u>Ingestion:</u>	Temporary mechanical irritation of the digestive tract. Observe individual. If symptoms develop, consult a physician.
<u>CHRONIC:</u>		See carcinogenicity section below. There are no known health effects associated with chronic exposure to this product.

### CARCINOGENICITY:

Hazardous Ingredients:	Listed as carcinogen by:	<u>ACGIH</u>	<u>IARC</u>	<u>NTP</u>	<u>OSHA</u>
Silicone dioxide, continuous filament		NA	NA	NA	NA

**MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE:** Persons with a history of chronic respiratory or skin conditions that are aggravated by mechanical irritants may be at increased risk for worsening their condition from exposure during use of the product.

### 12. ECOLOGICAL INFORMATION

N/A

### 13. DISPOSAL CONSIDERATIONS

See Section 8 (if applicable)

### 14. TRANSPORT INFORMATION

N/A

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### 15. REGULATORY INFORMATION

N/A

### 16. OTHER INFORMATION

SDS #32 Date prepared May 23, 2014

Added OSHA HCS Status  
Reviewed for accuracy & content May 11, 2017

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