

## Safety Data Sheet



### Section 1: Identification

#### Product identifier

- 7 – 15 micron QUARTZEL® Silica Yarn, Roving, and Chopped

#### Product Name

#### Strands

#### Synonyms

- Amorphous Fused Silica; Fused Quartz

#### SDS Number/Grade

- FE017

#### Relevant identified uses of the substance or mixture and uses advised against

#### Recommended use

- Textile or composite applications

#### Details of the supplier of the safety data sheet

#### Manufacturer

- Saint-Gobain Quartz USA  
7201 Distribution Drive  
Louisville, KY 40258-2828  
United States  
<http://www.quartz.saint-gobain.com>

Telephone (General) • 502-933-1005

#### Emergency telephone number

#### Manufacturer

- 502-995-2518

### Section 2: Hazard Identification

#### United States (US)

According to: OSHA 29 CFR 1910.1200 HCS

#### Classification of the substance or mixture

#### OSHA HCS 2012

- Not classified

#### Label elements

#### OSHA HCS 2012

#### Hazard statements

- No label element(s) required

#### Other hazards

#### OSHA HCS 2012

- This product is not considered hazardous under the U.S. OSHA 29 CFR 1910.1200 Hazard Communication Standard.

### Section 3 - Composition/Information on Ingredients

#### Substances

Composition					
Chemical Name	Identifiers	%	LD50/LC50	Classifications According to Regulation/Directive	Comments
Amorphous/fused silica	CAS:60676-86-0	> 98%	NDA	OSHA HCS 2012: Not Classified	NDA

## Mixtures

- Material does not meet the criteria of a mixture.

## Section 4: First-Aid Measures

### Description of first aid measures

#### Inhalation

- Move victim to fresh air. Give artificial respiration if victim is not breathing. Administer oxygen if breathing is difficult. If signs/symptoms continue, get medical attention.

#### Skin

- In case of contact with substance, flush skin with cold water for at least 5 minutes. Scrape stuck filaments from skin.

#### Eye

- In case of contact with substance, immediately flush eyes with running water for at least 20 minutes. If there is any pain or visual impairment, seek medical attention.

#### Ingestion

- Seek medical attention.

### Most important symptoms and effects, both acute and delayed

- Refer to Section 11 - Toxicological Information.

### Indication of any immediate medical attention and special treatment needed

#### Notes to Physician

- No specific actions or treatments recommended related to exposure to this material.

## Section 5: Fire-Fighting Measures

### Extinguishing media

**Suitable Extinguishing Media** • Not combustible. Use extinguishing media suitable for surrounding fire.

**Unsuitable Extinguishing Media** • No data available.

### Special hazards arising from the substance or mixture

**Unusual Fire and Explosion Hazards** • None known.

**Hazardous Combustion Products** • No data available.

### Advice for firefighters

- Wear positive pressure self-contained breathing apparatus (SCBA). Structural firefighters' protective clothing will only provide limited protection.

## Section 6 - Accidental Release Measures

### Personal precautions, protective equipment and emergency procedures

**Personal Precautions** • Wear appropriate Personal Protective Equipment (PPE).

**Emergency Procedures** • As an immediate precautionary measure, isolate spill or leak area for at least 25 meters (75 feet) in all directions. If tank, rail car or tank truck is involved in a fire, ISOLATE for 800 meters (1/2 mile) in all directions; also, consider initial evacuation for 800 meters (1/2 mile) in all directions. Keep unauthorized personnel away.

## Environmental precautions

- Prevent material from entering waterways and sewers.

## Methods and material for containment and cleaning up

### Containment/Clean-up Measures

- Wet the material to avoid the generation of excessive dust. Carefully shovel or sweep up waste material and place in suitable container.

## Reference to other sections

- Refer to Section 8 - Exposure Controls/Personal Protection and Section 13 - Disposal Considerations.

## Section 7 - Handling and Storage

### Precautions for safe handling

#### Handling

- Use only in well ventilated areas. Wear appropriate personal protective equipment, avoid direct contact. Avoid breathing any dust generated.

### Conditions for safe storage, including any incompatibilities

#### Storage

- Temperature: ≤ 25 °C Relative Humidity: ≤ 70% Avoid prolonged exposure to light. Yellowing can occur.

### Specific end use(s)

- Refer to Section 1 under Relevant identified uses.

## Section 8 - Exposure Controls/Personal Protection

### Control parameters

#### Exposure Limits Supplemental OSHA

- Amorphous/fused silica (60676-86-0): **Mineral Dusts:** ((80)/(% SiO<sub>2</sub>)) mg/m<sup>3</sup> TWA; 20 mppcf TWA)

### Exposure controls

#### Engineering Measures/Controls

- Dilution ventilation. Provide adequate ventilation systems as needed to control concentrations of airborne dusts below applicable threshold limit values.

#### Personal Protective Equipment

##### Respiratory

- For limited exposure use an N95 dust mask. For prolonged exposure use an air-purifying respirator with high efficiency particulate air (HEPA) filters. Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or symptoms are experienced.

##### Eye/Face

- Wear safety glasses with side shields.

##### Skin/Body

- Wear appropriate gloves. Wear long sleeves and/or protective coveralls.

#### Environmental Exposure Controls

- Follow best practice for site management and disposal of waste.

#### Key to abbreviations

TWA = Time-Weighted Averages are based on 8h/day, 40h/week exposures

## Section 9 - Physical and Chemical Properties

### Information on Physical and Chemical Properties

<b>Material Description</b>			
Physical Form	Solid	Appearance/Description	Off-white fiber strands, with an organic coating that comprises <2% of total weight and has little to no odor.
Color	Off white.	Odor	Little to no odor.
Odor Threshold	No data available		
<b>General Properties</b>			
Boiling Point	No data available	Melting Point/Freezing Point	No data available
Decomposition Temperature	100 °C(212 °F) (coating only)	pH	No data available
Specific Gravity/Relative Density	No data available	Density	No data available
Water Solubility	Negligible < 0.1 %	Viscosity	No data available
<b>Volatility</b>			
Vapor Pressure	10 mmHg (torr) @ 1732 °C(3149.6 °F)	Vapor Density	No data available
Evaporation Rate	No data available	Volatiles (Wt.)	0 %
Volatiles (Vol.)	0 %		
<b>Flammability</b>			
Flash Point	>= 177 °C(>= 350.6 °F) (coating only)	UEL	No data available
LEL	No data available	Autoignition	No data available
Flammability (solid, gas)	No data available		
<b>Environmental</b>			
Octanol/Water Partition coefficient	No data available		

## Section 10: Stability and Reactivity

### Reactivity

- No dangerous reaction known under conditions of normal use.

### Chemical stability

- Stable under normal temperatures and pressures.

### Possibility of hazardous reactions

- Hazardous polymerization not indicated.

### Conditions to avoid

- Avoid creating dusts.

### Incompatible materials

- Strong alkalis, molten metal oxides, hydrofluoric acid, and phosphoric acid at 400°C

### Hazardous decomposition products

- Amorphous silicate is transformed into crystalline silicate in the presence of alkali at about 800°C.

## Section 11 - Toxicological Information

### Information on toxicological effects

GHS Properties	Classification

<b>Acute toxicity</b>	OSHA HCS 2012 • No data available
<b>Skin corrosion/Irritation</b>	OSHA HCS 2012 • No data available
<b>Serious eye damage/Irritation</b>	OSHA HCS 2012 • No data available
<b>Skin sensitization</b>	OSHA HCS 2012 • No data available
<b>Respiratory sensitization</b>	OSHA HCS 2012 • No data available
<b>Aspiration Hazard</b>	OSHA HCS 2012 • No data available
<b>Carcinogenicity</b>	OSHA HCS 2012 • No data available
<b>Germ Cell Mutagenicity</b>	OSHA HCS 2012 • No data available
<b>Toxicity for Reproduction</b>	OSHA HCS 2012 • No data available
<b>STOT-SE</b>	OSHA HCS 2012 • No data available
<b>STOT-RE</b>	OSHA HCS 2012 • No data available

## Potential Health Effects

### Inhalation

#### Acute (Immediate)

- Exposure to dust may cause irritation. Processes such as cutting, grinding, crushing, or impact may result in generation of excessive amounts of airborne dusts in the workplace. Nuisance dust may affect the lungs but reactions are typically reversible.

#### Chronic (Delayed)

- Repeated and prolonged exposure to dust may cause lung effects including pneumoconiosis.

### Skin

#### Acute (Immediate)

- Exposure to dust may cause mechanical irritation.

#### Chronic (Delayed)

- No data available.

### Eye

#### Acute (Immediate)

- Exposure to dust may cause mechanical irritation. Excessive concentrations of nuisance dust in the workplace may reduce visibility and may cause unpleasant deposits in eyes.

#### Chronic (Delayed)

- No data available.

### Ingestion

#### Acute (Immediate)

- Excessive concentrations of nuisance dust in the workplace may cause mechanical irritation to mucous membranes.

#### Chronic (Delayed)

- No data available.

#### Key to abbreviations

TC = Toxic Concentration

TD = Toxic Dose

## Section 12 - Ecological Information

### Toxicity

- No information available for the product.

### Persistence and degradability

- No information available for the product.

### Bioaccumulative potential

- No information available for the product.

### Mobility in Soil

- No information available for the product.

## Other adverse effects

- No information available for the product.

## Section 13 - Disposal Considerations

### Waste treatment methods

#### Product waste

- Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

#### Packaging waste

- Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

## Section 14 - Transport Information

	UN number	UN proper shipping name	Transport hazard class(es)	Packing group	Environmental hazards
DOT	NDA	Not Regulated	NDA	NDA	NDA

**Special precautions for user** • None specified.

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code** • No data available

## Section 15 - Regulatory Information

### Safety, health and environmental regulations/legislation specific for the substance or mixture

**SARA Hazard Classifications** • None

State Right To Know		
Component	CAS	PA
Amorphous/fused silica	60676-86-0	No

Inventory		
Component	CAS	TSCA
Amorphous/fused silica	60676-86-0	Yes

## United States

### Labor

#### U.S. - OSHA - Process Safety Management - Highly Hazardous Chemicals

- Amorphous/fused silica 60676-86-0 Not Listed

#### U.S. - OSHA - Specifically Regulated Chemicals

- Amorphous/fused silica 60676-86-0 Not Listed

### Environment

#### U.S. - CAA (Clean Air Act) - 1990 Hazardous Air Pollutants

- Amorphous/fused silica 60676-86-0 Not Listed

#### U.S. - CERCLA/SARA - Hazardous Substances and their Reportable Quantities

• Amorphous/fused silica	60676-86-0	Not Listed
<b>U.S. - CERCLA/SARA - Radionuclides and Their Reportable Quantities</b>		
• Amorphous/fused silica	60676-86-0	Not Listed
<b>U.S. - CERCLA/SARA - Section 302 Extremely Hazardous Substances EPCRA RQs</b>		
• Amorphous/fused silica	60676-86-0	Not Listed
<b>U.S. - CERCLA/SARA - Section 302 Extremely Hazardous Substances TPQs</b>		
• Amorphous/fused silica	60676-86-0	Not Listed
<b>U.S. - CERCLA/SARA - Section 313 - Emission Reporting</b>		
• Amorphous/fused silica	60676-86-0	Not Listed
<b>U.S. - CERCLA/SARA - Section 313 - PBT Chemical Listing</b>		
• Amorphous/fused silica	60676-86-0	Not Listed

## United States - California

### Environment

<b>U.S. - California - Proposition 65 - Carcinogens List</b>		
• Amorphous/fused silica	60676-86-0	Not Listed
<b>U.S. - California - Proposition 65 - Developmental Toxicity</b>		
• Amorphous/fused silica	60676-86-0	Not Listed
<b>U.S. - California - Proposition 65 - Maximum Allowable Dose Levels (MADL)</b>		
• Amorphous/fused silica	60676-86-0	Not Listed
<b>U.S. - California - Proposition 65 - No Significant Risk Levels (NSRL)</b>		
• Amorphous/fused silica	60676-86-0	Not Listed
<b>U.S. - California - Proposition 65 - Reproductive Toxicity - Female</b>		
• Amorphous/fused silica	60676-86-0	Not Listed
<b>U.S. - California - Proposition 65 - Reproductive Toxicity - Male</b>		
• Amorphous/fused silica	60676-86-0	Not Listed

## United States - Pennsylvania

### Labor

<b>U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List</b>		
• Amorphous/fused silica	60676-86-0	Not Listed
<b>U.S. - Pennsylvania - RTK (Right to Know) - Special Hazardous Substances</b>		
• Amorphous/fused silica	60676-86-0	Not Listed

## Section 16 - Other Information

<b>Revision Date</b>	• 24/February/2020
<b>Preparation Date</b>	• 20/January/2016
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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.

**Key to abbreviations**

NDA = No data available