



# Refrasil Textile Products C100 Cloth

## Safety Data Sheet

According To Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules And Regulations  
Revision Date: 11/28/17 Date of Issue: 11/28/17

Version: 1.0

### SECTION 1: IDENTIFICATION

#### 1.1. Product Identifier

**Product Form:** Article

**Product Name:** Refrasil Textile Products C100 Cloth

**Synonyms:** Silicon dioxide

#### 1.2. Intended Use of the Product

**Use of the Substance/Mixture:** High Temperature Insulation

#### 1.3. Name, Address, and Telephone of the Responsible Party

##### Company

NEWTEX INDUSTRIES, INC.  
8050 Victor-Mendon Road  
Victor, New York 14564  
(585) 924-9135

#### 1.4. Emergency Telephone Number

**Emergency Number** : 1-800-836-1001

### SECTION 2: HAZARDS IDENTIFICATION

#### 2.1. Classification of the Substance or Mixture

##### GHS-US Classification

Not classified

#### 2.2. Label Elements

##### GHS-US Labeling

No labeling applicable

#### 2.3. Other Hazards

Handling and/or processing of this material may generate a dust which can cause mechanical irritation of the eyes, skin, nose and throat.

#### 2.4. Unknown Acute Toxicity (GHS-US)

No data available

### SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

#### 3.1. Substance

Silicon dioxide

#### 3.2. Mixture

Name	Product Identifier	%
Amorphous silica fiber	(CAS No) 7631-86-6	96-99

**Within the meaning of the OSHA Hazard Communication Standard [29 CFR 1910.1200]: this mixture is not considered a hazard when used in a manner which is consistent with the labeled directions. This mixture is considered an article in its final form.**

### SECTION 4: FIRST AID MEASURES

#### 4.1. Description of First-aid Measures

**First-aid Measures General:** The need for first aid is not anticipated under normal conditions of use.

**First-aid Measures After Inhalation:** Not expected to be a primary route of exposure. For particulates, dust, or fumes from processing: move to fresh air. Get medical attention if symptoms occur.

**First-aid Measures After Skin Contact:** Gently wash with plenty of soap and water.

**First-aid Measures After Eye Contact:** Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.

**First-aid Measures After Ingestion:** Rinse mouth with water.

#### 4.2. Most Important Symptoms and Effects Both Acute and Delayed

**Symptoms/Injuries:** Not expected to present a significant hazard under anticipated conditions of normal use.

**Symptoms/Injuries After Inhalation:** Not a likely route of exposure. Exposure to airborne concentrations above statutory or recommended exposure limits may cause irritation of the nose, throat and lungs.

**Symptoms/Injuries After Skin Contact:** Direct contact may cause irritation by mechanical abrasion.

**Symptoms/Injuries After Eye Contact:** Dust or particles from machining or grinding may cause mechanical irritation, causing irritation or redness.

**Symptoms/Injuries After Ingestion:** Not expected to be a primary route of exposure. However, in sufficient quantities, may cause gastro-intestinal irritation.

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## 4.3. Indication of Any Immediate Medical Attention and Special Treatment Needed

If medical advice is needed, have product container or label at hand.

## SECTION 5: FIRE-FIGHTING MEASURES

### 5.1. Extinguishing Media

**Suitable Extinguishing Media:** Use extinguishing media appropriate for surrounding fire.

**Unsuitable Extinguishing Media:** None known.

### 5.2. Special Hazards Arising From the Substance or Mixture

**Fire Hazard:** Product is not flammable.

**Explosion Hazard:** Product is not explosive.

**Reactivity:** Hazardous reactions will not occur under normal conditions.

### 5.3. Advice for Firefighters

**Precautionary Measures Fire:** Exercise caution when fighting any fire.

**Firefighting Instructions:** Use firefighting measures appropriate for the surrounding fire.

**Protection During Firefighting:** Do not enter fire area without proper protective equipment, including respiratory protection.

**Hazardous Combustion Products:** Metal oxide/oxides

## SECTION 6: ACCIDENTAL RELEASE MEASURES

### 6.1. Personal Precautions, Protective Equipment and Emergency Procedures

**General Measures:** Accidental release of the product does not present a hazard under normal conditions of use.

#### 6.1.1. For Non-Emergency Personnel

**Protective Equipment:** Use of personal protective equipment (PPE) is not generally required but should be evaluated based on the extent and severity of accidental release.

**Emergency Procedures:** Evacuate the area if accidental release presents a significant hazard.

#### 6.1.2. For Emergency Personnel

**Protective Equipment:** If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

**Emergency Procedures:** Upon arrival at the scene a first responder is expected to protect oneself and the public, secure the area, and call for the assistance of trained personnel as conditions permit.

### 6.2. Environmental Precautions

Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

### 6.3. Methods and Materials for Containment and Cleaning Up

**For Containment:** Contain the product and collect as any solid.

**Methods for Cleaning Up:** Move containers from spill area. Vacuum or sweep up material and place in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor.

### 6.4. Reference to Other Sections

See Section 8 for advice on personal protective equipment and Section 13 for disposal considerations.

## SECTION 7: HANDLING AND STORAGE

### 7.1. Precautions for Safe Handling

**Additional Hazards When Processed:** Further processing of the product requires an evaluation of potential hazards based upon intended use.

**Precautions for Safe Handling:** Put on appropriate personal protective equipment (see Section 8).

**Hygiene Measures:** Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. See also Section 8 for additional information on hygiene measures.

### 7.2. Conditions for Safe Storage, Including Any Incompatibilities

**Technical Measures:** No technical measures are necessary for storage of the product.

**Storage Conditions:** No specific conditions are required for storage of the product.

**Incompatible Products:** None known.

### 7.3. Specific End Use(s)

No use is specified

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1. Control Parameters

For substances listed in section 3 that are not listed here, there are no established exposure limits from the manufacturer, supplier, importer, or the appropriate advisory agency including: ACGIH (TLV), AIHA (WEEL), NIOSH (REL), or OSHA (PEL).

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Amorphous silica fiber (7631-86-9)		
USA NIOSH	NIOSH REL (TWA) (mg/m <sup>3</sup> )	TWA: 6 mg/m <sup>3</sup> 10 hours
MEXICO NOM	NOM-010-STPS (LMPE-PPT) (mg/m <sup>3</sup> )	LMPE-PPT: 3 mg/m <sup>3</sup> 8 hours. Form: breathable particulates LMPE-PPT: 10 mg/m <sup>3</sup> 8 hours. Form: inhalable particulates

## 8.2. Exposure Controls

- Appropriate Engineering Controls** : If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.
- Personal Protective Equipment** : Personal protective equipment is not generally required but should be evaluated based on conditions of use.
- Respiratory Protection** : When manufacturing or handling product in large quantities and dusts or particulates may be generated, maintain airborne concentrations below recommended limits. Workplace risk assessments should be completed before specifying and implementing respirator usage. NIOSH/MSHA approved respirators for protection should be used if found to be necessary.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

### 9.1. Information on Basic Physical and Chemical Properties

Physical State	: Solid
Appearance	: White
Odor	: Odorless
Odor Threshold	: No data available
pH	: Not available
Evaporation Rate	: Not available
Melting Point	: <1593°C (<2899.4°F)
Freezing Point	: Not available
Boiling Point	: Not available
Flash Point	: Not available
Auto-ignition Temperature	: Not available
Decomposition Temperature	: Not available
Flammability (solid, gas)	: Not available
Vapor Pressure	: Not available
Relative Vapor Density at 20°C	: Not available
Relative Density	: 2.1
Specific Gravity	: Not available
Solubility	: Not available
Partition Coefficient: N-Octanol/Water	: Not available
Viscosity	: Not available

**9.2. Other Information** No additional information available

## SECTION 10: STABILITY AND REACTIVITY

- 10.1. Reactivity:** No specific test data related to reactivity available for this product or its ingredients.
- 10.2. Chemical Stability:** The product is stable.
- 10.3. Possibility of Hazardous Reactions:** Under normal conditions of storage and use, hazardous reactions will not occur.
- 10.4. Conditions to Avoid:** No specific data.
- 10.5. Incompatible Materials:** Reactive or incompatible with the following materials: oxidizing materials.
- 10.6. Hazardous Decomposition Products:** Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## SECTION 11: TOXICOLOGICAL INFORMATION

### 11.1. Information on Toxicological Effects

**Acute Toxicity:** Not classified

**Skin Corrosion/Irritation:** Not classified

**Serious Eye Damage/Irritation:**

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Product/ingredient name	Result	Species	Score	Exposure	Observation
Amorphous silica fiber	Eyes – Mild irritant	Rabbit	-	24 hours 25 mg	-

**Respiratory or Skin Sensitization:** Not classified

**Germ Cell Mutagenicity:** Not classified

**Carcinogenicity:**

Product/ingredient name	OSHA	IARC	NTP	ACGIH	EPA	NIOSH
Amorphous silica fiber	-	3	-	-	-	-

**Reproductive Toxicity:** Not classified

**Specific Target Organ Toxicity (Single Exposure):** Not classified

**Specific Target Organ Toxicity (Repeated Exposure):** Not classified

**Aspiration Hazard:** Not classified

**Symptoms/Injuries After Inhalation:** Adverse symptoms may include the following: respiratory tract irritation, coughing

**Symptoms/Injuries After Skin Contact:** No known significant effects or critical hazards.

**Symptoms/Injuries After Eye Contact:** Adverse symptoms may include the following: irritation, redness

**Symptoms/Injuries After Ingestion:** No known significant effects or critical hazards.

**Chronic Symptoms:** Repeated or prolonged inhalation of dust may lead to chronic respiratory irritation.

## SECTION 12: ECOLOGICAL INFORMATION

### 12.1. Toxicity

Product/ingredient name	Result	Species	Exposure
Amorphous silica fiber	Acute EC50 55.5 mg/L Fresh water	Algae – Pseudokirchneriella subcapitata	72 hours
	Chronix NOEC 4.6 mg/L Fresh water	Algae – Pseudokirchneriella subcapitata	72 hours

**12.2. Persistence and Degradability:** There is no data available.

**12.3. Bioaccumulative Potential :** There is no data available.

**12.4. Mobility in Soil** No additional information available

**12.5. Other Adverse Effects**

**Other Information** : No known significant effects or critical hazards.

## SECTION 13: DISPOSAL CONSIDERATIONS

### 13.1. Waste Treatment Methods

**Waste Disposal Recommendations:** The generation of waste should be avoided or minimized wherever possible. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

## SECTION 14: TRANSPORT INFORMATION

The shipping description(s) stated herein were prepared in accordance with certain assumptions at the time the SDS was authored, and can vary based on a number of variables that may or may not have been known at the time the SDS was issued.

**14.1. In Accordance with DOT** Not regulated for transport

**14.2. In Accordance with IMDG** Not regulated for transport

**14.3. In Accordance with IATA** Not regulated for transport

## SECTION 15: REGULATORY INFORMATION

### 15.1. US Federal Regulations

**Amorphous silica fiber (7631-86-6)**

Listed on the United States TSCA (Toxic Substances Control Act) inventory

### 15.2. US State Regulations

**Amorphous silica fiber (7631-86-6)**

Listed under Massachusetts and Pennsylvania

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## SECTION 16: OTHER INFORMATION, INCLUDING DATE OF PREPARATION OR LAST REVISION

**Revision Date** : 11/28/17  
**Other Information** : This document has been prepared in accordance with the SDS requirements of the OSHA Hazard Communication Standard 29 CFR 1910.1200

*This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.*