



SAFETY DATA SHEET

Silica Cloth

SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION

Product Name: Silica Cloth (Lightweight 18oz | Heavyweight 36oz)
Silica Fabric (All forms: blanket, curtains, mats, rope, sleeving, & tape)

Chemical Name: Silicon Dioxide

Formula: SiO₂

CAS #: 7631-86-9

Primary Use: Silica Cloth / Fabric is a refractory satin weave fabric manufactured from ≥ 96% silica commonly used in Power Generation (Nuclear Approved), Refinery, Metal processing, Shipbuilding & Repair industries.

Identified Uses: Applications include but are not limited to the following:

- Welding and stress relieving applications
- Fabrication of welding curtains, blankets, & pads
- Protection of personnel and/or equipment from welding sparks and/or molten metal splatter
- Protection against hot work fires

Distributor / Manufacturer:

CeraMaterials
525 Silver Lake Rd
Dingmans Ferry, PA 18328
Emergency Contact: Jerry Weinstein
Product Stewardship: 518.701.6722
E-Mail: sales@ceramaterials.com
www.ceramaterials.com

24hr Emergency Contact Info:

Poison Control Center:	877.671.4608
CHEMTREC US Transportation:	800.424.9300
CHEMTREC International Transportation:	703.741.5500

**SECTION 2 - HAZARDS IDENTIFICATION****Emergency Overview:**

Off-white or tan colored flexible woven fabric with no order.

Classification of substance / mixture:

Not classified according to the Globally Harmonized System (GHS).

GHS Label Elements:

Not applicable.

Signal word:

No signal word (non-hazardous product).

Hazard statement:

No known significant effects or critical hazards.

Hazards not otherwise classified:

None known.

Effects of Overexposure:

Eye Contact: Slight irritation may be caused in contact with eyes.

Skin Contact: Temporary irritation of skin may be produced.

Inhalation: Inhalation of airborne fibers may cause irritation to the mouth, nose, and throat.

Ingestion: May cause temporary irritation of the digestive tract, but not an expected route of entry in industrial uses.

Chronic Hazards: There is no known chronic health effects associated with the use of this product under normal working conditions.

Primary routes of entry: Skin contact, inhalation, ingestion and eye contact.

Carcinogenicity Information: None of the components present in this material at concentrations equal to or greater than 0.1% are listed by IARC, NTP, OSHA, or ACGIH as carcinogen.

SECTION 3 - COMPOSITION

<u>Chemical & Common Name</u>	<u>CAS#</u>	<u>≈ % By Weight</u>
Amorphous Silica	7631-86-9	96 %
Proprietary Surface Finish Triethylene Amine	121-44-8	< 0.2 %

SECTION 4 - FIRST AID MEASURES

Description of necessary measures, subdivided according to the different routes of exposure, i.e., inhalation, skin and eye contact, and ingestion.

General Measures:

Remove individual from area of exposure.



Inhalation:

Remove affected personnel to an exposure-free environment and keep at rest in a position comfortable for breathing. Give oxygen if breathing is difficult. Get medical attention if symptoms occur.

Skin

Remove contaminated clothing, brush material off skin, wash affected area with plenty of mild soap and cool water. Get medical attention if irritation develops or persist.

Eyes

Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Check for & remove any contact lenses. Get medical attention if irritation develops or persist.

Ingestion:

Unlikely but if ingestion occurs, wash out mouth with water. Remove individual to fresh air and keep at rest in a position comfortable for breathing. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention immediately.

Most Important Symptoms /Effects, Acute & Delayed:

May cause irritation. See Section 11 for more information.

Indication of Immediate Medical Attention and Special Treatment:

No other relevant information available.

Notes to physicians:

Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

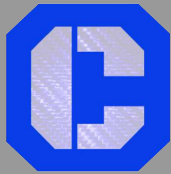
Specific treatments:

No specific treatment

SECTION 5 - FIRE FIGHTING MEASURES

Extinguishing Media

Flash Point	N/A
Lower & Upper Explosive Limit %	N/A
Autoignition Temperature	N/D
Suitable extinguishing media	Carbon dioxide, water, foam or dry chemical for type of surrounding fire.
Unsuitable extinguishing media	No information available.
Specific hazards arising from the material	May release toxic fumes if involved in a sustained fire.
Special protective equipments for fire-fighters	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA).



SECTION 6 - ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment, and Emergency Procedures:

Wear appropriate respiratory and protective equipment specified in Section 8. Isolate area and provide ventilation. Avoid breathing dust or fume. Avoid contact with skin and eyes.

Methods and Materials for Containment and Cleaning Up:

Avoid creating dust. Dust and/or loose fibers can be vacuumed or swept with the aid of a dust suppressant. Scoop or vacuum up material using a vacuum system equipped with a high efficiency particulate air (HEPA) filtration system and place in a properly labeled closed container for further handling and disposal.

Environmental Precautions:

Dust or loose fibers can be vacuumed or swept with the aid of a dust suppressant. Dispose according to federal, state, and local environmental regulations.

SECTION 7 - HANDLING AND STORAGE

Precautions for Safe Handling:

Avoid creating dust. Provide adequate ventilation if dust is created. Particular care should be taken when working with "used" material to minimize dust. If exposure limits are exceeded or if irritation is experienced, NIOSH approved respiratory protection should be worn. Avoid breathing dust or fumes. Avoid contact with skin and eyes. Wash thoroughly before eating or smoking. See Section 8 for information on personal protection equipment.

Conditions for Safe Storage:

Store in a cool, dry area. Store material tightly sealed in properly labeled containers. Do not store with basic phosphates, hydrofluoric acid, some oxides, and hydroxides. See Section 10 for more information on incompatible materials.

SECTION 8 - EXPOSURE CONTROLS AND PERSONAL PROTECTION

Exposure Limits	OSHA / PEL	ACGIH / TLV	NIOSH	IDHL
Amorphous Silica	80mg/m ³ ÷ SiO ₂ or 20 mppcf	10mg/m ³ (inhalable fraction) 3mg/m ³ (respirable fraction)	6mg/m ³	3000mg/m ³

Engineering Controls:

Ensure adequate ventilation to maintain exposures below occupational limits. Whenever possible the use of local exhaust ventilation or other engineering controls is the preferred method of controlling exposure to airborne dust and fume to meet established occupational exposure limits. Use good housekeeping and sanitation practices. Do not use tobacco or food in work area. Wash thoroughly before eating or smoking. Do not blow dust off clothing or skin with compressed air.

Individual Protective Measures, Such as Personal Protective Equipment

Respiratory Protection	Respirators are not necessary under normal working conditions. If airborne dust is present use suitable respirator when high concentrations are present.
Eye Protection	Eye protection is not necessary under normal working conditions. Safety glasses are recommended for general protection.
Skin Protection	Protective clothing is not necessary under normal working conditions, but it is recommended to use appropriate workplace clothing and procedures.
Comments	This product contains no known OSHA hazardous ingredients per 29 CFR 1910.1200



SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance & State:	Off-White or Tan Woven Fabric	LEL/UEL:	Not applicable
Odor:	Odorless	Vapor pressure:	Not applicable
Odor threshold:	Not applicable	Vapor density:	Not applicable
pH:	Not applicable	Relative density:	2.2-2.6 g/cc
Melting point:	3000°F	Water Solubility:	Insoluble
Boiling point:	4046°F	Viscosity:	Not applicable
Flash point:	Not applicable	Autoignition temperature:	Not applicable
Evaporation rate:	Not applicable	Decomposition temperature:	Not applicable
Flammability (solid, gas):	Not applicable	Partition coefficient (n-octanol/water):	Not applicable

SECTION 10 - STABILITY AND REACTIVITY

Reactivity	Not reactive.
Chemical Stability	The product is stable under normal temperature and storage conditions.
Possibility of hazardous reactions	Under normal conditions hazardous polymerization will not occur.
Conditions to avoid	No specific data
Incompatible materials	Basic phosphates, Hydrofluoric acid, some oxides and hydroxides.
Hazardous decomposition products (Base material)	Not applicable. Contains no organic compounds that would oxidize during decomposition.
Hazardous decomposition products (Coating Only)	Oxidation of the coating produces carbon monoxide and carbon dioxide.

SECTION 11 - TOXICOLOGICAL INFORMATION

Information On Toxicological Information

Likely Routes of Exposure	Inhalation, skin and eyes.
Symptoms of Exposure	Dusts may cause mechanical irritation to eyes and skin. Acute inhalation may cause coughing, nose and throat irritation or sneezing.
Component Analysis	
Component Carcinogenicity	None known. *Material which has been subjected to elevated temperatures (>1800°F) may undergo partial conversion to cristobalite, a form of crystalline silica, which may cause respiratory illness. The amount of cristobalite present will depend on the temperatures and length of service. The OSHA PEL for cristobalite is 0.05 mg/m ³ (respirable).

SECTION 12 - ECOLOGICAL INFORMATION

No ecological concerns or information can be identified with this product. Additionally, the product is insoluble in water.



SECTION 13 - DISPOSAL CONSIDERATIONS

Disposal Methods:

The generation of waste should be avoided or minimized wherever possible. The product is not expected to be a characteristic waste under the RCRA and no EPA numbers are applicable for product's components. Disposal of this product, solutions, and any by-products should comply with the requirements of the environmental protection and waste disposal legislation in your geographical location.

Product

Dispose of in accordance with Federal, State, Local, and/or Geographical regulations.

Packaging

Dispose of in accordance with Federal, State, Local, and/or Geographical regulations.

SECTION 14 - TRANSPORT INFORMATION

Shipping Regulations: Not regulated.

UN/NA Number: Not applicable.

UN Proper Shipping Name: Not applicable.

Transport Hazard Class: Not applicable.

Packaging Group: Not applicable.

SECTION 15 - REGULATORY INFORMATION

US Federal Regulations

SARA Section 313: This product contains the following substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendment and Reauthorization Act of 1986 and 40 CFR Part 372: None

TSCA: The chemical substances in this product are on the TSCA Section 8 Inventory.

Export Notification: This product contains the following chemical substances subject to the reporting requirements of TSCA 12(B) if exported from the United States: None

International Regulations

Canada Workplace Hazardous Materials Information (WHMIS) This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains the information required by the Controlled Products Regulations.

Canadian WHMIS Class: Not regulated.

**SECTION 16 - OTHER INFORMATION**

Effective Date: May 31, 2020
Revision Summary: Company Information updated.
Revision Date: October 27, 2020
SDS Prepared By: CeraMaterials

Disclaimer

The information presented herein is presented in good faith and believed to be accurate as the effective date of this Safety Data Sheet. Employers may use this SDS to supplement other information gathered by them in their efforts to assure the health and safety of their employees and the proper use of the product. This summary of the relevant data reflects professional judgement; employers should note that information perceived to be less relevant has not been included in this SDS. Therefore, given the summary nature of this document, CeraMaterials does not extend any warranty (expressed or implied), assume any responsibility, or make any representation regarding the completeness of this information or its suitability for the purposes envisioned by the user.