

## Manufacturer's Material Safety Data Sheet

### 1. IDENTIFICATION OF MATERIAL AND SUPPLIER

<b>Product Name</b>	SILICA GLASS CLOTH, NEEDLE MATT
<b>Other Name</b>	
<b>Physical Description</b>	Silicon Dioxide - Amorphous Silica
<b>Uses</b>	High temperature industrial insulation, welding blankets, etc
<b>Supplier Name</b>	Darco Industries
<b>Address</b>	20 Dobra Road, Yangebup WA 6164
<b>Telephone</b>	08 9418 8826
<b>Fax</b>	N/A
<b>E-Mail</b>	<a href="mailto:james@darco.com.au">james@darco.com.au</a>
<b>Emergency</b>	0402 002 359

### 2. HAZARDS IDENTIFICATION

NOT CLASSIFIED AS HAZARDOUS ACCORDING TO NOHSC CRITERIA  
NOT CLASSIFIED AS A DANGEROUS GOOD BY THE CRITERIA OF THE ADG CODE

### 3. COMPOSITION / INFORMATION ON INGREDIENTS

Ingredient	Formula	Conc.	CAS No.
Amorphous Silica	SiO <sub>2</sub>	>94%	
	Al <sub>2</sub> O <sub>3</sub>	3.5%	

### 4. FIRST AID MEASURES

<b>Eye</b>	None usually required. If irritation occurs, flush with running water and seek medical attention.
<b>Inhalation</b>	Fibres are non-respirable. A respirable fibre is defined as one longer than 5µ and less than 3µ in width and with a length/width ratio of more than 3:1. This material is a continuous filament, 6µ fibre product.
<b>Skin</b>	None usually required. If irritation occurs and persists, wash with soap and water and seek medical attention.
<b>Ingestion</b>	None usually required. If ingestion occurs, consult a physician
<b>Advice To Doctor</b>	Treat symptomatically

**5. FIRE FIGHTING MEASURES**

**Flammability** Non flammable  
**Fire and Explosion** Not applicable  
**Extinguishing** Use that which is appropriate for surrounding fire. Water, foam, CO2 or dry chemical  
**Hazchem Code** None allocated.

**6. ACCIDENTAL RELEASE MEASURES**

**Spillage** Dust or loose fibres should be vacuumed up or swept up with aid of a dustsuppressant.

**7. HANDLING AND STORAGE**

**Handling** Handle in a manner that will prevent airborne particles in the workplace.  
**Storage** Store in a manner that will prevent airborne particles in the workplace.

**8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

**Ventilation** Recommended.

**Exposure Standards** Threshold Limit Value: ACGIH TLV is 10mg/m3  
 Signs & Symptoms of Exposure: Some characteristics are similar to fibreglass which is identified as a nuisance particulate by ACGIH.  
 Chronic Exposure: Hyper-sensitive personnel may experience some irritation of the skin.  
 Medical Conditions Generally If skin irritation persists, wash with mild soap and water and seek medical attention.

Chemical Listed as Carcinogen or Potential Carcinogen:  
 National Toxicology Program: No  
 I.A.R.C. Monographs: No  
 OSHA: No  
 OSHA Permissible Exposure Limit: 10mg/m3  
 ACGIH Threshold Limit Value: 10mg/m3  
 Other Exposure Limit Used: 10mg/m3

**PPE** Respiratory Protection: None Usually Required  
 Protective Gloves: None Usually Required  
 Eye Protection: None Usually Required  
 Other Protective Clothing or Equipment: None Usually Required



**9. PHYSICAL AND CHEMICAL PROPERTIES**

**Appearance:** White, tan when coated with Vermiculite  
**Odour:** None  
**pH:** Not available  
**Vapour Pressure:** Not applicable  
**Vapour Density:** Not applicable  
**Boiling Point:** Not applicable  
**Melting Point:** 1700°C

**Evaporation Rate:** Not applicable  
**Solubility (water):** Not applicable  
**Specific Gravity:** 2.1  
**% Volatiles:** Not applicable  
**Flammability:** Non flammable  
**Flash Point:** Not applicable  
**Upper Explosion Limit:** Not applicable  
**Lower Explosion Limited:** Not applicable  
**Autoignition Temperature:** Not applicable

## 10. STABILITY AND REACTIVITY

**Reactivity** Not compatible with basic phosphates, hydrofluoric acid, some oxides and hydroxides; especially at elevated temperatures.  
**Decomposition Products**

## 11. TOXICOLOGICAL INFORMATION

**Health Hazard Summary** Textile glass products do not contain hazardous or toxically ingredients according to the GetStoffV of 26.08.1986. Textile glass products are not carcinogenic. They have a nominal filament diameter of 9µm. The smallest possible filament diameter is 6µm. According to the TRGS 905 (April 1996) fine dust can be carcinogenic only if all of the following conditions are fulfilled: Fibre length <5µm, diameter <3µm, ratio of length to diameter <3:1

**Eye** Irritant. Exposure to fibres may result in irritation, pain and redness  
**Inhalation** Irritant. Exposure to fibres may result in irritation of the respiratory tract  
**Skin** Irritant. Prolonged contact may result in irritation, itching and possible skin rash  
**Ingestion** Not applicable Due to product form ingestion is highly unlikely  
**Toxicity Data** Not applicable

## 12. ECOLOGICAL INFORMATION

**Environment** High silica glass fibres are made from mineral raw material and do not have essential organic substances. They are not biologically decomposable. High silica glass fibres are ecologically harmless.

## 13. DISPOSAL CONSIDERATIONS

**Waste Disposal Legislation** Dispose of in accordance with local, state and federal regulations.

14. TRANSPORT INFORMATION

**Transport** No restrictions  
**UN Number** Non allocated  
**DG Class** Non allocated  
**Risk(s)** Non allocated

14. TRANSPORT INFORMATION

**Packing Group** Non allocated  
**Hazchem Code** None allocated

15. REGULATORY INFORMATION

**Poison Schedule** A poison schedule number has not been allocated to this product.

16. OTHER INFORMATION

**Additional Information**

There is not an established threshold limit value (TLV) that is directly applicable to the woven silica fabrics. Chemically, the silica cloths are composed of about 99.5% amorphous silicon dioxide, with trace elements of iron, sodium and magnesium. The cloths are produced from continuous filament yarn with a medium filament diameter of 7.974 microns with a standard deviation of 1.349. The minimum filament size is 5.575 microns with the maximum size measured at 12.618 microns. The filaments are considered non-respirable. The cloths will partially transform to a cristobalite structure when subjected to steady state temperatures above 1177°C. In the event that the cloths are subjected to continuous temperatures exceeding 1177°C, appropriate precautions should be exercised.

**Date Printed** 11/01/2021  
**Report Status** Completed  
**Prepared By** Darco Industries

End of Document

**DISCLAIMER**

The information presented herein is based on data considered to be accurate as of the date of preparation of this Material Safety Data Sheet. However, no warranty or representation, express or implied, is made as to the accuracy or completeness of the foregoing data and safety information. In addition, no responsibility can be assumed by vendor for any damage or injury resulting from abnormal use, from any failure to adhere to recommended practices, or from any hazards inherent in the nature of the product.