

**Industrial Insulation & Safety Materials** 

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# **Manufacturer's Material Safety Data Sheet**

### 1. IDENTIFICATION OF MATERIAL AND SUPPLIER

**Product Name** SILICA GLASS CLOTH, NEEDLE MATT

**Other Name** 

Silicon Dioxide - Amorphous Silica **Physical Description** 

> High temperature industrial insulation, welding blankets, etc Uses

**Supplier Name Darco Industries** 

> **Address** 20 Dobra Road, Yangebup WA 6164

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**Emergency** 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 SiO2 >94%  $Al_20_3$ 3.5%

Page 1 of 4

# 4. FIRST AID MEASURES

None usually required. If irritation occurs, flush with running water and seek medical attention. Eye

Inhalation 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.

Skin None usually required. If irritation occurs and persists, wash with soap and water and seek medical

attention.

None usually required. If ingestion occurs, consult a physician Ingestion

**Advice To Doctor** Treat symptomatically

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### 5. FIRE FIGHTING MEASURES

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 dust suppressant.

### 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.

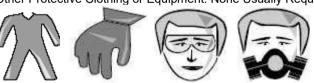
seek medical attention.

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
Respiratory Protection: None Usually Requ

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

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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

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 Dispose of in accordance with local, state and federal regulations.

Legislation

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### 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.

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**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.

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Page 4 of 4

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