

Material Safety Data Sheet

1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND COMPANY

Product Description Silicone Polymer Coated E Glass Fabric

<u>Product Category</u>	Silicone Polymer Coated E Glass Fabric
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Supplier	Cheshire Ribbon Manufacturing	Date of Issue: March 2009
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2. COMPOSITION / INFORMATION ON INGREDIENTS

The fabrics covered by this data sheet are based on continuous filament fibres made from borosilicate E Glass (CAS-65997-17-3). The filament diameters are uniform and are well above the maximum size considered to be respirable (approx. 3 micron). They will not sub-divide into fibrils of a smaller diameter. The fibres contain small amounts of complex organic surface dressings (e.g. starch based and PVA compounds).

The fabrics are coated on one or both sides with silicone polymers. The silicone polymer coatings applied to the fabrics contain quantities of compounding agents and pigments to give the fabric the required performance characteristics and colour.

3. HAZARD INFORMATION

These products are classified as low hazard.

4. FIRST AID MEASURES

Inhalation

In the unlikely event of excessive inhalation of dust, (or fumes from a sustained fire situation), remove the individual to the fresh air. Obtain medical advice.

Skin Irritation

In the unlikely event of skin irritation wash affected part with mild soap and water. If irritation persists obtain medical advice.

Eye Irritation

Irrigate eyes if affected by entry of dust. Obtain medical advice if irritation persists.

5. FIRE-FIGHTING MEASURES

Flammability	The fabrics will not support combustion.
Special Firefighting Procedures	In a sustained fire the fabrics will degrade. The surface dressings and coating will give rise to fumes and smoke containing oxides of carbon and silicone. Appropriate forms of self-contained breathing apparatus should therefore be worn in such situations.
Extinguishing Media	Use that appropriate to the surrounding fire.

6. ACCIDENTAL RELEASE MEASURES

Fabric that is fire damaged or made friable should be handled with the use of personal protective equipment.

7. HANDLING AND STORAGE

It is highly unlikely that these fabrics will give rise to significant amounts of dust during normal handling and dust control measures will rarely be required in circumstances involving the fabrication of products from them. However, in accordance with good working practices, the production of debris should be minimised and the accumulation of dust should be removed by dust-less methods. No special storage conditions are required on health grounds.

8. EXPOSURE CONTROL / PERSONAL PROTECTION

Workplace exposure to mineral fibre dust of non-respirable size should be kept to the minimum that is reasonably practicable and should not exceed a Workplace Exposure Limit of 5mg/m³ (8 hour TWA) (Ref. 1).

Dust levels are only likely to arise above the exposure limit if the fabrics are handled extremely vigorously or subjected to harsh mechanical abrasion. In such circumstances, the provision of local exhaust ventilation should be considered. Should this not be practicable, protective masks approved for use against irritant dust should be worn in accordance with their manufacturer's instructions.

To reduce the chance of skin irritation during the handling of glass fibre based fabrics, protective overalls of a closely woven structure should be worn. Gloves, arm cuffs or barrier creams may also be advantageous in some circumstances. Emphasis should, however, be placed on personal hygiene, ensuring that hands and arms are washed with copious quantities of cool running water to remove any loose fibres before application of soap for washing purposes.

Where there is a possibility of glass fibre entering the eye, suitable eye protection should be worn.

9. PHYSICAL AND CHEMICAL PROPERTIES.

Weights	See appropriate Product Data Sheets
Appearance	The fabrics are white, silver grey, red or black in colour.
Odour	The fabrics have no discernible odour.
Solubility in Water	Insoluble
Melting Point	> 700°C
Boiling Point	Not applicable
Vapour Pressure	Not applicable
Percent Volatile (vol.)	Not applicable
Evaporation rate	Not applicable

10. STABILITY AND REACTIVITY

The fabrics are stable under normal conditions of use.

11. TOXICOLOGICAL INFORMATION

Primary Routes of Potential Exposure

Inhalation, skin and eye contact.

Effects of Over-exposure (Acute and Chronic)

Inhalation (Dust)	In view of the encapsulating nature of the polymer coating it is most unlikely that glass dust will be generated during normal usage. However, the diameter of the continuous glass filaments used for the construction of these fabrics is not considered to be respirable and the levels of dust derived from the fabrics under normal usage will be negligible. Fabrics subjected to harsh mechanical abrasion may give rise to a mixture of particulate dust (rubber polymer and glass) that could be irritating to the upper respiratory tract. Such effects are usually transitory leaving no permanent damage. Contact with molten metal or flame may give rise to localised emission of fume.
Skin Irritation	Some people who come into contact with glass fibre experience reddening and itching of the skin. Those who are subject to this effect are most likely to experience it when handling the fabrics for the first time or after a period of no contact as hardening of the skin usually occurs. People with a history of skin complaints may be particularly susceptible and, in general, should not come into contact with glass fibre.
Eye Irritation	Entry of glass fibre into the eye will cause foreign body irritation.
Carcinogenicity	Continuous glass filament is not classified as a carcinogen.

12. ECOLOGICAL INFORMATION

These products are not associated with any known ecological problems.

13. DISPOSAL CONSIDERATIONS

The disposal of waste should be carried out in accordance with national or regional directives - normally by burial in controlled industrial landfill sites.

14. TRANSPORT INFORMATION

All products are labelled as in [Section 2](#) and transported double wrapped to prevent damage and water ingress.

15. REGULATORY INFORMATION

No specific regulatory information is applicable to these glass textiles.

16. OTHER INFORMATION

References

1, Health & Safety Executive Guidance Note EH 40/2005 Occupational Exposure Limits 2005

For further information contact:

CHESHIRE RIBBON MANUFACTURING

NOTE:

This Data Sheet relates to the material as supplied. The information contained herein is given in good faith, but no liability will be accepted by the Company in relation to same. The acquisition of additional information may necessitate revisions to parts or all of this Data Sheet, and such information will be supplied as it becomes available.

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