

Material Safety Data Sheet

1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND COMPANY

Product Description Basalt Fibre Products

<u>Product Category</u>	Basalt Fibre Products
All Fabrics and Textiles manufactured from:	Basalt Continuous Filament Fibres

Supplier	Cheshire Ribbon Manufacturing	Date of Issue: March 2009
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2. HAZARD INFORMATION

Cheshire Ribbon continuous filament Basalt fibre products are classified as low hazard.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Textile products made of basalt continuous filament fibres with a nominal diameter >5µm. The products contain max 5% processing aids (e.g paraffin, silane)

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.

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5. FIRE-FIGHTING MEASURES

Flammability

The products will not support combustion.

Special Fire fighting Procedures

In a sustained fire the products will degrade. The surface dressings will give rise to fumes and smoke containing oxides of carbon. 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

Material that is fire damaged or made friable should be handled with the use of personal protective equipment. Prevent spread of basalt fibre dust and avoid dust-generating conditions. Vacuum clean dust. If sweeping is necessary use a dust suppressant.

7. HANDLING AND STORAGE

It is highly unlikely that these products 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 basalt 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 products 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 basalt fibre based products, 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 basalt fibre entering the eye, suitable eye protection should be worn.

9. PHYSICAL AND CHEMICAL PROPERTIES.

Weights	See appropriate Product Data Sheets
Appearance	The products are green-brown in colour.
Odour	The products have no discernible odour.
Solubility in Water	Insoluble
Melting Point	1450 °C
Boiling Point	Not applicable
Vapour Pressure	Not applicable
Percent Volatile (vol.)	Not applicable
Evaporation rate	Not applicable

10. STABILITY AND REACTIVITY

The products 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 diameter of the continuous basalt filaments used for the construction of these products, dust derived from the materials referred to is not generally considered to be respirable. For the majority of operations associated with the handling and use of these materials, the quantity of dust generated is expected to be negligible. Products subjected to harsh mechanical abrasion may give rise to dust 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 basalt fibre experience reddening and itching of the skin. Those who are subject to this effect are most likely to experience it when handling the materials 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 basalt fibre.
Eye Irritation	Entry of basalt fibre into the eye will cause foreign body irritation.
Carcinogenicity	Continuous basalt filament is not classified as a carcinogen.

12. ECOLOGICAL INFORMATION

These products are not associated with any known ecological problems. Basalt has its origin in nature

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

15. REGULATORY INFORMATION

No specific regulatory information is applicable to these basalt textiles.

16. OTHER INFORMATION

References

1, Health & Safety Executive Guidance Note EH 40/2005 Workplace 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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