



Glass Fibre Rope



1. IDENTIFICATION OF SUBSTANCE / PREPARATION AND COMPANY

Product Description: Glass Fibre Rope
Supplier: Unit 20, Millenium Business Park, Cappagh Road, Dublin 11, Ireland.
Date of Issue: March 2013

2. COMPOSITION / INFORMATION ON INGREDIENTS

The product covered by this data sheet is based on continuous filament fibres made from borosilicate E Glass (CAS-65997-17-3). The filament diameters are uniform, 9 micron in size and are therefore above the maximum size considered to be respirable (approx 3 micron). They will not sub-divide into fibrils of smaller diameter. The fibres contain small amounts of complex organic surface dressings (e.g. starch based and pva compounds). Some of the yarn used in the rope construction contain a polypropylene filament (maximum 1%).

3. HAZARD IDENTIFICATION

Glass Fibre Rope is labelled for identification purposes only being of 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 outer braiding yarns contain polypropylene which will support combustion but the main mass of the product is non-combustible. Glass will soften and subsequently melt at temperatures above 700°C.
Special Firefighting Procedures: In a sustained fire the product will degrade and the surface dressings and finishes will give rise to irritant fumes and smoke.
Extinguishing Media: Use that appropriate to the surrounding fire.

6. ACCIDENTAL RELEASE MEASURES

Glass rope damaged or made friable should be handled with the use of personal protective equipment.

7. HANDLING AND STORAGE

It is highly unlikely that glass rope 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 these materials. However, in accordance with good working practices the production of debris should be minimised and the accumulation of dust should be removed by dustless methods. Material should be cut by shaving cutting devices and not torn. No special storage conditions are required on health grounds.

8. EXPOSURE CONTROL / PERSONAL PROTECTION

Occupational Exposure Limits

Occupational exposure to man-made mineral fibre dust of non-respirable size should be kept to the minimum that is reasonably practicable and should not exceed a Maximum Exposure Limit of 5mg/m³ (8 hour TWA) (Refs 1 & 2).

Only if the material is being handled extremely vigorously or subjected to harsh abrasion are dust levels likely to rise above the exposure limit. In such circumstances the provision of local exhaust ventilation should be considered, or if this is not practicable, dust masks should be worn approved for use against irritant dust. These should be worn in accordance with manufacturer's instructions.

To reduce the chance of skin irritation when handling glass fibre rope, overalls of a close weave material should be worn. Gloves, arm cuffs or barrier creams may also be advantageous in some circumstances. However, emphasis should be placed on personal hygiene and hands and arms should be rinsed copiously under running water before washing.

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 Sheet.
Appearance: White Odour The product has no discernible odour.
Solubility in Water: Insoluble
Melting Point: Glass 700°C +
Polypropylene 150°C +
Boiling Point: Not applicable
Vapour Pressure: Not applicable Percent V olatile (vol) Not applicable
Evaporation Rate: Not applicable

10. STABILITY AND REACTIVITY

Glass rope is stable when used for the intended industrial application (see product data sheet for range of service temperatures).

11. TOXICOLOGICAL INFORMATION

Primary Routes

of Potential Exposure: Inhalation, skin and eye contact.

Effects of Over-exposure

(Acute and Chronic): *Inhalation (Dust)* Glass dust from the rope referred to in this Data Sheet is not regarded as respirable in view of the large diameter of the continuous filaments used, and the levels of dust likely to arise from most operations involving the handling and use of the materials will be negligible. Only if the product is subjected to harsh mechanical abrasion are levels of dust likely to arise that could be irritating to the upper respiratory tract. Such effects are usually transitory leaving no permanent damage.

Fume Minor quantities of fume will be emitted in a fire situation resulting from the decomposition of the polypropylene constituent in the yarn.

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 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 glass fibre.

Eye Irritation Entry of glass fibre into the eye will cause foreign body irritation.

Carcinogenicity Continuous glass filament has been reported as a material 'Not classified as to human carcinogenicity'.

12. ECOLOGICAL INFORMATION

No harmful effect on the environment.

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 TBA Glass products are labelled as in (Section 3) and transported double wrapped to prevent possible damage.

15. REGULATORY INFORMATION

No specific regulatory information is applicable to this glass rope.

16. OTHER INFORMATION

References

1. Health & Safety Executive Guidance Note EH 46. Man-Made Mineral Fibres (Rev Nov 1990)
2. Health & Safety Executive Guidance Note EH 40/2001 Occupational Exposure Limits 2001