



Product Number: 117 Smoke Curtain

Description:

The Envirograf® Smoke Curtain is an impregnated glass cloth, sealed with an intumescent coating that will withstand temperatures of up to 1200°C, providing smoke protection and BS476 Class 0 and Class1.

This product comprises of the following materials and therefore is supported by Health & Safety Data Sheets:

- (Appendix 3) Glass Cloth
- (Appendix 15) LVFR

*The information contained in this safety data sheet is given in good faith. It is accurate to the best of our knowledge and belief and represents the most up to date information. The information given in this data sheet does not constitute or replace the user's own assessment of workplace risk as required by other health and safety legislation.

HEALTH & SAFETY INFORMATION SHEET
APPENDIX 3
WOVEN GLASS FABRIC

Issue 2. 17/3/2015

1. IDENTIFICATION OF THE PREPARATION AND COMPANY

PRODUCT NAME: Woven Glass Fabric
MANUFACTURER/SUPPLIER: Envirograf
ADDRESS: Envirograf House, Barrestone, Dover, Kent, CT15 7JG
TELEPHONE/FAX/EMAIL: 01304 842555 01304 842666 sales@envirograf.com
EMERGENCY PHONE NUMBER: 01304 842555 (Monday to Friday 8.30 – 5.30)

2. HAZARDS IDENTIFICATION

There are no major health hazards associated with the fabric; however exposure to glass fibres sometimes causes irritation of the skin and less frequently irritation of the eyes, nose or throat.

3. COMPOSITION / INFORMATION ON INGREDIENTS

CHEMICAL CHARACTERISATION: Fibrous glass (E-type, continuous filament) compositions consisting principally of oxides of silicon, aluminium, calcium, boron and magnesium, fused in an amorphous vitreous state

Glass fibre does not meet the classification for a 'dangerous substance' according to 67/548/EEC. Glass Fibre carries no CAS registry number and no EPA code designation number. Glass as a generic substance, the E-glass Composition included, has been incorporated in the EINECS under no. 65997-17-3.

4. FIRST-AID MEASURES

INHALATION: In case of inhalation of glass dust particles or fumes from thermal degradation move into fresh air, if irritation persists seek medical attention

SKIN CONTACT: If irritation is a problem then rinse the affected areas with cool water, then wash gently with mild soap. If glass fibre becomes embedded in the skin then seek medical attention

EYE CONTACT: Flush eyes with clear water for at least 15 minutes, if irritation persists seek medical attention

5. FIRE-FIGHTING MEASURES

Glass fibre is inherently non-flammable

SUITABLE EXTINGUISHING MEDIA: Water, carbon dioxide, dry powder

PROTECTIVE EQUIPMENT FOR FIRE FIGHTERS: In a sustained fire, self-contained breathing apparatus and protective clothing should be utilised

6. ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS: None

ENVIRONMENTAL PRECAUTIONS: None

METHOD FOR CLEANING UP: Dust pan and wet brush

7. HANDLING AND STORAGE

PRECAUTIONS FOR HANDLING: No special measures, for personal protection see section 8. Glass fibre has electrical isolation properties and so may give some static

PRECAUTIONS FOR STORAGE: Store below 25°C in a dry, well ventilated place

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

RESPIRATORY PROTECTION: None required, if airborne glass fibre concentrations exceed the control limit, respiratory protection for nuisance dust should be provided.

EYE PROTECTION: Safety glasses with side shields should be worn.

HAND/SKIN PROTECTION: Protective gloves, overalls buttoned to fit loosely at the neck and wrists and long trousers may reduce irritation in some operations. Barrier cream may provide further protection from irritation.

HYGIENE MEASURES: Wash hands before breaks and at the end of the day. Launder items of clothing contaminated with glass fibre dust separately.

CONTROL LIMITS: Airborne glass dust – TLV = 5mg/m³

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	White woven fibres
Colour:	White
Odour:	None
pH Value:	Not applicable
Melting point (softening):	830° C
Flash point:	Not applicable
Auto ignition temperature:	Not applicable
Explosive properties:	Not applicable
Specific gravity:	2.6g/cm ³
Solubility:	Insoluble in water. Glass fibre will disperse, to some extent in organic solvents like styrene, acetone etc.

10. STABILITY AND REACTIVITY

CONDITIONS TO AVOID: Stable under recommended storage and handling conditions (see section 7)

MATERIAL TO AVOID: -

HAZARDOUS DECOMPOSITION PRODUCTS: Carbon dioxide, carbon monoxide, silicone dioxide

11. TOXICOLOGICAL INFORMATION

INHALATION: The products of thermal decomposition, including carbon dioxide and carbon monoxide may cause dizziness and headache after prolonged low level exposure.

Pre-existing upper respiratory and lung disease may be aggravated.

SKIN CONTACT: No toxicological effect.

EYE CONTACT: No toxicological effect.

This product is not manufactured using glass fibre with diameters that are classified as respirable (fibres with diameters less than 3.0 microns which are capable of travelling into the body to the trachea, bronchi etc.)

All of the fibres in this product have fibre diameters equal to or greater than 4.5 microns, and are therefore not physically capable of travelling beyond the nose and pharynx.

12. ECOLOGICAL INFORMATION

Glass fabrics are not readily biodegradable. No known harmful effects on the environment

13. DISPOSAL CONSIDERATIONS

WASTE FROM RESIDUES/UNUSED PRODUCTS: Dispose as solid, non-recyclable waste according to local regulations.

CONTAMINATED PACKAGING: Empty containers should be transported/delivered using a registered waste carrier for local recycling where possible or waste disposal.

14. TRANSPORT INFORMATION

No special precautions or restriction involving transport are known.

15. REGULATORY INFORMATION

Symbols: None

Risk phrases: None

Safety phrases: None

16. OTHER INFORMATION

The information contained in the Health and Safety Data Sheet is provided in accordance with the requirements of the CHIP Regulations. The product should not be used for purposes other than those shown in section 1 without first referring to the supplier and obtaining written handling instructions. As the specific conditions of use of the product are outside the supplier's control, the user is responsible for ensuring that the requirements of relevant legislation are complied with. This information contained in the safety data sheet is based on present knowledge and current national legislation. It provides guidance on health, safety and environmental aspects of the product and should not be construed as any guarantee of technical performance or suitability for particular applications.

HEALTH & SAFETY INFORMATION SHEET
APPENDIX 15
LVFR

29th April 2015. ISSUE 2

1. IDENTIFICATION OF THE PREPARATION AND COMPANY

PRODUCT NAME: LVFR
MANUFACTURER/SUPPLIER: Envirograf
ADDRESS: Envirograf House, Barfrestone, Dover, Kent, CT15 7JG
TELEPHONE / FAX / EMAIL: 01304 842555 01304 842666 sales@envirograf.com
EMERGENCY PHONE NUMBER: 01304 842555 (Monday to Friday 8.30 – 5.30)

2. HAZARDS IDENTIFICATION

HEALTH EFFECTS:
SKIN: May cause slight irritation on prolonged / repeated contact.
EYES: May cause some irritation.
INHALATION: No hazard under normal conditions of use.
INGESTION: Low toxicity.
PHYSICAL/CHEMICAL EFFECTS: Not applicable.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical characterization Aqueous polymer coating for exterior surfaces.

Chemical Name	CAS No.	EC No.	%	Classification
C14-C17 chloroalkanes	85535-85-9	287-477-0	<7%	N Dangerous for the environment R50/53 Very toxic to aquatic organisms R64-66 May cause harm to breast fed babies

4. FIRST AID MEASURES

SKIN CONTACT: Remove contaminated clothing and wash contaminated skin with soap and water.
EYE CONTACT: Wash immediately with water for 15 minutes. If irritation persists seek medical advice.
INHALATION: Remove the casualty to fresh air.
INGESTION: Rinse out mouth with water and if conscious drink plenty of water. Seek medical attention.

5. FIRE-FIGHTING MEASURES

EXTINGUISHING MEDIA: Foam, carbon dioxide, powder, and water spray.
EXTINGUISHING MEDIA WHICH MUST NOT BE USED FOR SAFETY REASONS: None known
SPECIAL EXPOSURE HAZARDS: None known.
SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS: Chemical protection suit / gloves / boots and self-contained breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS: Use personal protection equipment.

ENVIRONMENTAL PRECAUTIONS: Do not dispose of into surface water or sanitary sewer system.

METHODS FOR CLEANING UP: Scrape up excess and dispose of at an approved site.

7. HANDLING AND STORAGE

HANDLING PRECAUTIONS: Not applicable.

STORAGE CONDITIONS: Store in original closed containers between + 5°C and + 30°C in dry conditions. Avoid extremes of temperature.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

CONTROL PARAMETERS: Refer to current edition of HSE Guidance Note EH40 Occupational Exposure Limits (UK)

ENGINEERING MEASURES: Not applicable.

PERSONAL PROTECTION EQUIPMENT:

RESPIRATORY PROTECTION: Mask where appropriate.

HAND PROTECTION: Gloves.

EYE PROTECTION: Goggles.

SKIN AND BODY PROTECTION: Wearing of closed work clothing is recommended.

9. PHYSICAL AND CHEMICAL PROPERTIES

Colour	White, Red or Yellow.	Explosive properties	Not applicable.
Form	Shear thinning paste.	Oxidizing properties	Not applicable.
Odour	Low odour.	Vapour pressure	Not applicable.
pH as supplied	Approximately 6.5–8.0	Specific Gravity	1.26 to 1.30
Boiling point/range	Not determined.	Solubility:	
Melting point/range	Not applicable.	Water solubility	Miscible.
Flash point	Not applicable.	Partition coefficient	Not applicable.
Flammability (solid, gas)	Not self-igniting.	(n-octanol/water)	
Auto ignition temperature	Not applicable.		
Other data			

10. STABILITY AND REACTIVITY

STABILITY: Stable under normal conditions.

CONDITIONS TO AVOID: Avoid extremes of temperature especially frost and freezing conditions.

MATERIALS TO AVOID: None, under normal conditions of use.

HAZARDOUS DECOMPOSITION PRODUCTS: No decomposition if stored and applied as directed.

11. TOXICOLOGICAL INFORMATION

Not applicable

12. ECOLOGICAL INFORMATION

Not applicable

13. DISPOSAL CONSIDERATIONS

Dispose of in accordance with local regulations at approved sites.

14. TRANSPORT INFORMATION

UK ROAD/RAIL	Not applicable. None hazardous.
IMDG	Not applicable. None hazardous.
ICAO	Not applicable. None hazardous.
ADR	Not applicable. None hazardous.

15. REGULATORY INFORMATION

Supply classification:	
Hazard symbol(s)	N Dangerous for the environment
Risk phrases	R50/53 Very toxic to aquatic organisms R64-66 May cause harm to breast fed babies.
Safety phrases	S25 Avoid contact with eyes. S26 In case of contact with eyes, rinse immediately with plenty of water, seek medical advice S39 Wear eye / face protection. S57 Use appropriate container to avoid environmental contamination.

16. OTHER INFORMATION

Recommended use	Coating with fire retardant / intumescent properties.
Further information	Consult technical data sheet.
R-Phrase from section 2	R50/53 – Toxic to aquatic organisms, may cause long term adverse effects in the aquatic environment
History	
Date of printing	27 May 2015
Date of issue	April 2015
Version	2
Prepared by	Intumescent Systems Limited

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