



Product Number: 57

FB70/AC Fire Barrier Curtain - ACOUSTIC

Description:

A 1mm thick reinforced glass cloth coated with yellow Envirograf® intumescent coating on one face. Available in 1220mm widths. Acoustic version to meet the airborne and impact sound reduction requirements of Document E of UK Building Regulations

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

- (Appendix 3) Glass Cloth
- (Appendix 15) LVFR Coating
- (Appendix 12) Polyurethane Flexible Foam

*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 (8.30 – 5.30 Monday to Friday)

2. HAZARD 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, 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

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	18 May 2015
Date of issue	April 2015
Version	2
Prepared by	Intumescent Systems Limited

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HEALTH & SAFETY INFORMATION SHEET

APPENDIX 12

Polyurethane Flexible Foam (Grey)

Issue 2. 17/3/2015

1. IDENTIFICATION OF THE PREPARATION AND COMPANY

PRODUCT NAME: Polyurethane Flexible Foam (Grey)
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. HAZARD IDENTIFICATION

Polyurethane foams are not considered to be hazardous products nor as mixtures of dangerous substances. They are identified as industrial polymers. According to EU Regulations 1907/2006EC (REACH) Polyurethane foams are defined as “articles”

3. COMPOSITION / INFORMATION ON INGREDIENTS

CHEMICAL DESCRIPTION: Poly-addition product of isocyanates, polyether/polyester polyols and water, controlled by catalysts, stabilizers and other additives.
REGULATORY INFORMATION: No labelling is currently required for this material by existing EU Regulation on Classification, Packaging and Labelling of substances and mixtures (1272/2007/EC)

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 rinse the affected areas with cool water & wash gently with mild soap.
EYE CONTACT: Flush eyes with clear water for at least 15 minutes, if irritation persists seek medical attention

5. FIRE-FIGHTING MEASURES

FIRE HAZARD: The product is a combustible material & causes, when burning, intense heat & dense smoke. In a fire, decomposition products such as carbon black, carbon monoxide, carbon dioxide, gaseous hydrocarbons & nitrogen containing products can be generated in various concentrations depending on the combustion conditions
SUITABLE EXTINGUISHING MEDIA: Water, carbon dioxide, dry powder, liquid foam
PROTECTIVE EQUIPMENT FOR FIRE FIGHTERS: Fire fighters should use self-contained breathing apparatus. Should the burning foam come in contact with skin, cool the burned area with water without removing the foam. In case of serious burns call a doctor immediately. In the event of persons inhaling combustion gases, they must be removed from the area and given swift medical attention.

6. ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS: None
ENVIRONMENTAL PRECAUTIONS: None
METHOD FOR CLEANING UP: Dust pan and brush

7. HANDLING AND STORAGE

PRECAUTIONS FOR HANDLING: Special protective equipment and clothing is not necessary when handling foam since it does not irritate the skin, eyes or respiratory system, except in those processes where dust is produced

PRECAUTIONS FOR STORAGE: Store away from heat sources. UV rays may cause surface discoloration. This does not affect the physical properties of the foam. Store in compliance with safety standards established by Local Authorities and by specific requirements of the Insurance Companies.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

RESPIRATORY PROTECTION: None required. In case of dust generating operations skin protective clothes and appropriate respiratory masks are recommended

EYE PROTECTION: Protective goggles should be worn for processes which generate dust.

HAND/SKIN PROTECTION: None required. In case of dust generating operations skin protective clothes and appropriate respiratory masks are recommended

HYGIENE MEASURES: General hygiene measure should be observed

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Cellular material with elastic properties

Colour: Varies according to manufacture

Odour: None to mild odour

Decomposition temperature: Above 180°C

Flash point: Between 315°C to 370°C

Thermal energy: 28.000 KJ/kg

Solubility: Insoluble in water.

10. STABILITY AND REACTIVITY

CONDITIONS TO AVOID: Stable under recommended storage and handling conditions (see section 7). The product is stable at temperatures between -40°C and +100°C

11. TOXICOLOGICAL INFORMATION

ORAL: There is no evidence that PU foam is toxic in case of ingestion. LD50 (oral-rats) >5000 mg/kg

INHALATION: The COSHH definition of a substance hazardous to health includes dust of any kind when present at a concentration in air equal to or greater than 10mg/m³ 8-hour TWA of inhalable dust or 4mg/m³ 8-hour TWA of respirable dust. This means that any dust will be subject to COSHH if people are exposed above these levels

SKIN CONTACT: No adverse effects known following contact with PU Foam

EYE CONTACT: Dust particles can cause mechanical irritation. Rinse with water to remove dust

MICROBIOLOGICAL CONTAMINATION: PU foam is sterile when manufactured

12. ECOLOGICAL INFORMATION

BIODEGRADABILITY: Dependant on the type of PU foam, the product is not degradable or degrades slowly.

ADDITIONAL ECOLOGICAL DATA: In case of a standard foam fire, the particles that fall in the water are harmless they are sieved out of the water and /or disintegrated in the water treatment plant. Living organisms in the water are not endangered. PU flexible foams do not contain Ozone depleting substances and are not produced using products regulated by pertinent legislation.

13. DISPOSAL CONSIDERATIONS

PRODUCTION TRIM: Trim polyurethane foam and off-cuts can usually be recycled by several methods, provided they are clean and sorted

POST-CONSUMER WASTE: A major recycling option exists via rebonding if a series of technical and economic conditions are met. If recycling is not possible, scrap or post-consumer PU foam waste can be used for energy recovery or be disposed of at licensed landfill sites or by incineration under controlled conditions in agreement with EU and National regulatory provisions and following advice from the Local Waste Regulation Authority.

LEGISLATION: Under EU environmental legislation, there are no special requirements for the disposal of conventional PU foam

14. TRANSPORT INFORMATION

LABELING: PU foam is not classified for conveyance or supply under the International Agreements on Carriage of Dangerous Goods. The product is not classified as hazardous for any mode of transportation under current EU/UN regulations.

MEASURES: No special steps need to be taken for the transportation of PU foam

15. REGULATORY INFORMATION

Symbols: None

Risk phrases: None

Safety phrases: None

16. OTHER INFORMATION

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