



Product Number: 90
Motorised or Thermal Break
Fire and Smoke Curtains

Description:

Envirograf manufacture a range of Fire and Smoke curtains designed to suit individual needs. We offer two designs:

New Style which is a slim line version for smaller openings from 450mm to 1800mm.

Traditional Style for larger openings from 1800mm to 3800mm.

Both styles are supplied with motorised operation which will close automatically when activated by the Fire alarm system or local smoke / heat detector.

The New Style can also be supplied as a gravity drop curtain which is held in position by 70°C Thermal break Links.

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

- Fabricated and powder coated Zintec & mild steel sheet metal 1.2mm to 3mm thick (N/A)
- Fire Proof Sponge (Appendix 2)
- Silicone Glass Cloth (Appendix 3)
- 230v Failsafe motor (N/A)
- Brushes (N/A)
- Multigraf Intumescent Material (Appendix 1)
- Barrel (N/A)
- Control Unit (N/A)
- 70°C Thermal Break links (N/A)

*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 2
FIRE PROOF SPONGE

Issue 2. December 2014

1. IDENTIFICATION OF THE PREPARATION AND COMPANY

PRODUCT NAME: Fire Proof Sponge
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

Not known to be a skin irritant
Dust can cause eye irritation
Dust generated from such operations as continuous grinding or buffing can great nuisance particles, this can cause irritation to the respiratory tract or even lung infection, airway obstruction and fibrosis
The Control of Substances Hazardous to Health Regulations (COSHH), 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

3. COMPOSITION / INFORMATION ON INGREDIENTS

Poly-addition products of isocyanates, polyols and water. Controlled by catalysts, stabilizers and other substances resulting in cellular polyurethane foams which are then post treated with flame retardants, particulate fillers and polymeric binding agent. Fire proof sponge as supplied does not contain any residual di-isocyanate.

4. FIRST AID MEASURES

INHALATION: No adverse effects anticipated
SKIN CONTACT: Wash off any foam dust
EYE CONTACT: In case of dust particle contact with eyes, rinse immediately with plenty of water until irritation subsides. If necessary seek medical advice
INGESTION: Consult physician if coughing, discomfort or obstruction of air passage occurs.

5. FIRE-FIGHTING MEASURES

GENERAL HAZARD: Under extreme temperatures the sponge will decompose and emit toxic gases. In the event of a fire, evacuate premises immediately and call the Fire Brigade. Avoid inhalation of smoke and gases.
EXTINGUISHING MEDIA: To suit local surroundings (e.g. water, carbon dioxide, foam, dry powder)
SPECIAL EXPOSURE HAZARDS: Decomposition products released in a fire, (e.g. carbon black, carbon monoxide, carbon dioxide, oxides of nitrogen, hydrogen cyanide), should be considered toxic if inhaled

6. ACCIDENTAL RELEASE MEASURES

METHODS FOR CLEANING UP: Pick up and sweep up as for any other inert material
ENVIRONMENTAL:
CONSIDERATIONS: Do not allow to get into waste water or waterways

7. HANDLING AND STORAGE

ADVICE ON SAFE HANDLING: Handle in accordance with good hygiene and safety practice

STORAGE CONDITIONS: No special conditions required, but ideally to be stored in dry conditions

FURTHER INFORMATION: Keep away from sparks, naked lights, open flames, exposed electrical elements or other ignition sources. Smoking should be forbidden in areas where material is stored or processed

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

PROTECTIVE EQUIPMENT: Unless exposure to foam dust is anticipated, dust masks, goggles and gloves are not required

VENTILATION: Mechanical ventilation should be considered in operations that generate large quantities of foam dust

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical form:	Cellular foam.	
Colour:	Dark Grey	
Odour:	Faint, characteristic	
General Flammability:	BS EN 13501-1	Euroclass B-s1, d1
	Fire Propagation Index	<12 BS476 pt 6
	Surface Spread of Flame	Class "1" BS476 pt 7
	Building Regs. 1991 (Fire Safety)	Class "0" BS476 pt 6 & pt 7
	Operating Temperature	-30 to 100°C
	UL94 Classification	94 V-0 UL 94
	Surface Burning Behaviour	Class A ASTM E84-95
Density:	>90 kg/M3 BS EN ISO 845	

10. STABILITY AND REACTIVITY

STABILITY: Stable under normal conditions of handling

11. TOXICOLOGICAL INFORMATION

GENERAL INFORMATION: No harmful effects have been reported to date

12. ECOLOGICAL INFORMATION

DEGRADABILITY: Almost inert

13. DISPOSAL CONSIDERATIONS

ADVICE ON DISPOSAL: Under EU Environmental Regulations and Directives, there are no special requirements for disposal of Fire Proof Sponge

FURTHER INFORMATION: Various methods are available for the recycling of uncontaminated cellular foam including crumbed or shredded or rebounded to produce reconstituted foam

14. TRANSPORT INFORMATION

Not regulated for transport

15. REGULATORY INFORMATION

Fire Proof Sponge is an “article” not a chemical. It is not classified as dangerous under the Chemicals (Hazard Information and Packaging for Supply) Regulations (CHIP), Classification, Labelling and Packaging of Chemical Regulations (CPL) & the UN’s Globally Harmonised System (GHS), and therefore does not require a Safety Data Sheet. It is exempt from the requirements to register under REACH. As a service to our customers, however Intumescent Systems Ltd has produced this data sheet.

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 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, 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

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 DATA SHEET
Appendix 1
MULTIGRAF INTUMESCENT MATERIAL

April 2015. Issue 2

1. IDENTIFICATION OF THE PREPARATION AND COMPANY

PRODUCT NAME: Multigraf Intumescent Material
MANUFACTURER/SUPPLIER: Intumescent Systems Ltd
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

Cutting through the material and surface scuffing may release small amounts of airborne fibre, clay and carbon dust which are mechanically irritant to skin, eyes and upper respiratory system.

Based on animal studies, excessive exposure to man made mineral fibre dust may cause lung damage (fibrosis) and tumours.

As with any dust, pre-existing upper respiratory symptoms and lung diseases may be aggravated.

3. COMPOSITION/INFORMATION ON INGREDIENTS

CHEMICAL CONSTITUTION

Mineral Wool Fibre	20-70	%	by	weight
Exfoliating Graphite	20-60	%	by	weight
Organic binder (including adhesive coating)	5.0-30	%	by	weight

4. FIRST AID MEASURES

SKIN: Rinse affected areas with water and wash gently with soap. Do not use detergent.
EYES: Flush eyes with large quantities of water, Have eye bath readily available in areas where eye contact may occur. Seek medical attention if irritation continues.
INGESTION: Drink plenty of water. Seek medical advice.
INHALATION: Remove to fresh air, drink water and clear throat and blow nose to evacuate fibre/dust. Seek medical attention.

5. FIRE FIGHTING MEASURES

SUITABLE EXTINGUISHING MEDIA: Use extinguishing agent suitable for type of surrounding combustible materials. Do not inhale products of combustion.

6. ACCIDENTAL RELEASE MEASURES

Store product in original wrapping until required for use. Do not allow dust to be wind blown. Do not use compressed air to blow dust or fibres. Unwanted product should be collected & stored in sealed bags. Dust/fibre should be removed using a suitable vacuum cleaner with HEPA exhaust air filtration & disposal collection bags; used bags to be sealed before disposal. If sweeping is required the area should be damped down with water before brushing

7. HANDLING AND STORAGE

HANDLING: Keep dust generation to a minimum.

STORAGE: Store dry and cool. Keep in original wrapping until required for use.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

APPLICABLE OCCUPATIONAL EXPOSURE LIMITS:

MAN MADE MINERAL FIBRE: *ME 2.0 fibres/ml & 5 mg/m; (8 hr TWA)

FINE CARBON DUST: *OES 3.5 mg/m; (8 hr TWA) and 7 mg/m; (STEL)

* (UK Health & Safety Executive - OEL EH40/98)

RESPIRATORY PROTECTION: Wear disposable dust respirator (e.g. 3M 8810 or equivalent).

HAND PROTECTION: Use of gloves is recommended.

EYE PROTECTION: Wear goggles or safety glasses with side shields. Do not wear contact lenses.

SKIN PROTECTION: Wear overalls that are loose fitting at the neck and wrists.

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: Flexible Grey fibrous mat with black speckle

DENSITY: 200 - 500 kg/m;

EXPANSION: Rapid volumetric expansion occurs when product is heated above 100°C

FLAMMABILITY: Material will sustain combustion for a short period until organic binder (and SAB coating) is burnt out or resulting expansion self-extinguishes.

10. STABILITY AND REACTIVITY

STABILITY / CONDITIONS TO AVOID: Stable.

MATERIALS TO AVOID: Strong oxidizing agents, strong alkalis and hydrofluoric acid.

HAZARDOUS DECOMPOSITION PRODUCTS: Combustion products are HRO, CO, COR and hydrocarbons.

11. TOXICOLOGICAL INFORMATION

The International Agency for Research on Cancer (IARC) has classified Mineral Wool Fibre as possibly carcinogenic (Group 2B).

12. ECOLOGICAL INFORMATION

This product will remain stable over time with the inorganic components remaining inert.

13. DISPOSAL CONSIDERATIONS

Waste is not classified as a hazardous waste and may be disposed of at a normal licensed industrial waste site. Local regulations should be considered. Waste should be bagged or suitably contained for disposal to prevent any dusts being windblown during disposal.

14. TRANSPORT INFORMATION

Not regulated for Transport. Ensure that dust is not wind blown during transportation.

15. REGULATORY INFORMATION

LABELLING
DANGER CLASSIFICATION -
CONTAINS: -
R PHRASES: -
S PHRASES: -
NATIONAL REGULATIONS: -

16. OTHER INFORMATION

Further information regarding working with man made mineral fibres and measurement techniques may be obtained by referring to Guidance Note EH46 1990 and NDHS59 1998 published by the UK, Health & Safety Executive.

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