



Product number: **29**
Intumescent Cable Tray Pillows

HEALTH & SAFETY DATA INFORMATION

This is a compressible intumescent pillow specifically for use with cable trays, complete with retention wire and tag. Envirograf® cable tray pillows should be used where cable trays penetrate ceilings, floors, and walls, to fill the opening and protect it from the passage of fire. The retention wire and tag are fitted to the cable tray as a safeguard against removal of the pillow during maintenance.

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

- (Appendix 1) Intumescent Material
- (Appendix 3) Glass cloth
- (Appendix 2) Fire proof sponge

*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.



ENVIROGRAF®

HEALTH & SAFETY DATA SHEET

Appendix 1

MULTIGRAF INTUMESCENT MATERIAL

1. IDENTIFICATION OF THE PREPARATION AND COMPANY

PRODUCT NAME: Multigraf Intumescent Material
MANUFACTURER/SUPPLIER: Envirograf
ADDRESS: Envirograf House, Barrestone, Nr. Dover, Kent, CT15 7JG
TELEPHONE/FAX: 01304 842555 01304 842666
EMERGENCY PHONE NUMBER: 01304 842555

2. 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

3. 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.

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 and stored in sealed bags. Dust/fibre should be removed using a suitable vacuum cleaner with HEPA exhaust air filtration and 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 (eg. 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 wind blown 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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ENVIROGRAF®

DATA INFORMATION SHEET FIRE PROOF SPONGE Appendix 2

SECTION 1 INGREDIENTS

Fire Proof Sponge is manufactured by post treatment of flexible polyurethane with flame retardants, particulate filler and a polymeric bonding agent

SECTION 2 PHYSICAL & SAFETY DATA

Appearance	Cellular solid, usually black
<i>Typical Physical Properties</i>	
Density (kg/m ³)	90 - 100
Hardness	130 - 180
Tensile strength (Newton's) Min	70
Elongation at break % Min	90
<i>Typical Flammability Properties</i>	
BS476: Part 5	Non ignition
BS476: Part 6	Fpi<12
BS476: Part 7	Class '1'
BS476: Part 6+7	Class '0'

SECTION 3 LABELLING AND CONVEYANCE

Does not classify for conveyance or supply under the Carriage of Dangerous Goods (Classification, packaging and labelling), and Use of Transportation Pressure Receptacles Regulations 1996.

SECTION 4 PROTECTIVE MEASURES

Ventilation	No ventilation is required but precautions may be required if material is involved in operation which may produce dust such as baffling.
Respiratory Protection	Not necessary.
Eye Protection	Wear protective goggles when process generates dust.
Protective Clothing	Not required.

SECTION 5 MEASURES IN CASE OF ACCIDENT & FIRES

In case of spillage	Pick up or sweep up as for any other inert material.
Extinguish Media	Water, CO ₂ , foam.
In case of fire	Under extreme temperatures, Sponge will decompose and omit toxic gases. Sound alarm, evacuate building. Fire fighters should wear positive pressure, self contained breathing apparatus.

First Aid Procedures:

Ingestion	No adverse effects anticipated.
Eye Contact	Mechanical effects only, irrigate with water to remove dust.
Skin	No adverse effects anticipated.
Inhalation	No adverse effects anticipated.

SECTION 6 TOXICITY & HEALTH HAZARD DATA

Occupational Exposure Limits	None
Ingestion	Not harmful if swallowed
Eye Contact	Unlikely - dust may cause irritation due to mechanical action
Skin Contact	Solid - is non irritating
Inhalation	No fumes

SECTION 7 ECOLOGY DATA

Degradation	In water the product should not present problems due to its extremely low solubility. In soil, almost inert, may slowly biodegrade due to bacterial and fungal activity.
CFC Content	CFC's are not used in any Sponge.
Disposal:	The disposal of waste foam should comply with local and government regulations, ie. Approved land fill or approved incineration.

SECTION 8 FURTHER INFORMATION

The levels of fire resistance are detailed in Section 2. If a sufficient large ignition source is used the polymeric content of the product will degrade and toxic gases and heat will be generated.

This product is classified as non hazardous as defined in Chemical (hazard information and packaging for supply) Regulations 1994 (CHIP2).

It is recommended that the following Health and Safety guidance booklet is referred to *HS(G)92 Safe Use and Storage of Cellular Plastics.



ENVIROGRAF®

DATA SHEET

Appendix 3

Description	Woven glass fabric Starch weave locked
Ends/cm	18.9
Picks/cm	11.1
Weave	4 end satin
Thickness	0.40 mm
Wt/m ²	430 g/m ²
Warp count	1360 d'tex
Weft count	1360 d'tex
Fibre type	Cont. fil glass
Filament diameter	9μ
Warp tensile strength	960 N/cm
Weft tensile strength	720 N/cm
Finish	Starch weave lock

Note : All figures quoted are nominal values