



Product Number: 34

### Intumescent Fire & Smoke Grille

This product provides fire and smoke protection for openings in ceilings, fire doors and walls, or at the entry point of ventilation ducting. Envirograf® type TJ shutter grilles can be installed into an existing fire alarm system or operated independently. In the electro-mechanical version, the shutter mechanism is 24V electrically-operated, either independently with its own controller and detector unit, or via 24V fire alarm circuitry. The Envirograf® SG/C control unit can operate up to 4 grilles. In addition, there are two reset options for these grilles: manual reset by pushing the plate back into position (standard), or automatic reset by means of electro-mechanical operation. For applications where wiring is not appropriate, a thermo-mechanical shutter grille is available, which operates by means of a "memory spring" that closes the shutter when the temperature reaches 55 degrees Celsius. Flush mounting plates are also available

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

- (Appendix 1 ) Intumescent material
- Preformed Zintec steel plate (not available)

\*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.

## **Appendix 1**

### MULTIGRAF INTUMESCENT MATERIAL

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#### **1. IDENTIFICATION OF THE PREPARATION AND COMPANY**

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

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#### **2. COMPOSITION/INFORMATION ON INGREDIENTS**

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##### 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

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#### **3. HAZARDS IDENTIFICATION**

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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.

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#### **4. FIRST AID MEASURES**

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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.

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## 5. FIRE FIGHTING MEASURES

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

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## 6. ACCIDENTAL RELEASE MEASURES

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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

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## 7. HANDLING AND STORAGE

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HANDLING: Keep dust generation to a minimum.  
STORAGE: Store dry and cool. Keep in original wrapping until required for use.

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## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

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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.

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

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APPEARANCE:	Flexible Grey fibrous mat with black speckle
DENSITY:	200 - 500 kg/m <sup>3</sup> ;
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.

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## 10. STABILITY AND REACTIVITY

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STABILITY / CONDITIONS TO AVOID:	Stable.
MATERIALS TO AVOID:	Strong oxidizing agents, strong alkalis and hydrofluoric acid.
HAZARDOUS DECOMPOSITION PRODUCTS:	Combustion products are H <sub>2</sub> O, CO, CO <sub>2</sub> and hydrocarbons.

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## 11. TOXICOLOGICAL INFORMATION

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

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## 12. ECOLOGICAL INFORMATION

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

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## 13. DISPOSAL CONSIDERATIONS

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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.

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## 14. TRANSPORT INFORMATION

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

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## 15. REGULATORY INFORMATION

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### LABELLING

DANGER CLASSIFICATION -

CONTAINS: -

R PHRASES: -

S PHRASES: -

NATIONAL REGULATIONS: -

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## 16. OTHER INFORMATION

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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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