

# SAFETY DATA SHEET



**ENVIROGRAF®**

HS034-01-2020

Product Number: 34

## Intumescent Fire & Smoke Grille

### Description:

Regulations often require fire and smoke protection grilles for openings in walls, ceilings, fire doors or at the entry point of ventilation ducting. The Envirograf® TJ Grille fulfils this requirement, offering full fire and smoke protection.

The TJ grille can be either installed into an existing 24V fire/smoke alarm system or (alternatively, if there is no alarm system available or the grille is required to be independent), into an Envirograf® AC mains to 24V control unit with smoke detector circuit and N/O or N/C contacts. (This control unit can operate up to 3 grilles).

*Under Regulation 1907/2006 REACH Safety Data Sheets are only required for hazardous substances and mixtures/preparations; Intumescent Systems Ltd is not therefore legally obliged to supply Safety Data Sheets for its articles. Despite this Intumescent Systems Ltd has decided to provide its customers with information regarding the safe use and handling of the products listed above by means of this Safety Data Sheet.*

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.

**HEALTH & SAFETY DATA SHEET**  
**APPENDIX 1**  
**MULTIGRAF INTUMESCENT MATERIAL**

Issue 3. July 2018

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

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**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)

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**2. HAZARDS IDENTIFICATION**

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**HAZARD STATEMENTS:**

1. None for the non-woven products (manufactured articles) covered by this MSDS
2. None for dust and fibres released during handling

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.

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

Under the European chemicals Regulation 1907/2006 REACH this product is considered to be an article. These materials do not contain any substances of very high concern or substances intended to be released under normal foreseeable conditions of use.

Under Regulation 1907/2006 REACH Safety Data Sheets are only required for hazardous substances and mixtures/preparations; Intumescent Systems Ltd is not therefore legally obliged to supply Safety Data Sheets for its non-woven products.

Despite this Intumescent Systems Ltd has decided to provide its customers with information regarding the safe use and handling of the products listed above by means of this Material Safety Data Sheet

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**3. COMPOSITION/INFORMATION ON INGREDIENTS**

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**COMPOSITION:**

| Substance                                  | CAS / EC No         | % by weight | Classification and labelling Regulation EC 1272/2008 | Classification and labelling Directive 67/548/EEC |
|--|---------------------|-------------|--|---|
| Mineral Wool*                              | 287922-11-6         | 20 – 85     | Not Classified                                       | Not Classified                                    |
| Exfoliating Graphite                       | 7782-42-5/231-995-3 | 4.0 – 60    | Not Classified                                       | Not Classified                                    |
| Polymeric Binder and Self Adhesive coating | N/A - polymer       | 5.0 - 30    | Not Classified                                       | Not Classified                                    |

\* Man-made vitreous silicate fibres of random orientation with alkaline oxide and alkali earth oxides (Na<sub>2</sub>O + K<sub>2</sub>O+CaO+MgO+BaO) content greater than 18% by weight and fulfilling one of the Note Q conditions for increased bio-solubility.

Mineral wool fibres satisfying the Note Q conditions for increased bio-solubility are not classified as carcinogenic according to Directive 97/69/EC and Regulation EC 1272/2008 (page332 of the JOCE L353 of 31 Dec 2008)

Self-adhesive products are supplied faced on one side with a Kraft release paper.

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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

**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

Do not allow dust to be wind blown.

Unwanted product should be collected and stored in sealed bags.

Do not use compressed air to remove dust or fibres from equipment

Dust/fibre should be removed using a suitable vacuum cleaner with HEPA exhaust air filtration.

The collected deposits and used vacuum cleaner bags should be sealed into poly-bags before disposal.

If sweeping is required the area should be thoroughly damped down with water before sweeping commences to prevent dust and fibres becoming airborne during sweeping

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## 7. HANDLING AND STORAGE

**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

**APPLICABLE OCCUPATIONAL EXPOSURE LIMITS:** from HSE EH40/2005 – second edition 2011

**MACHINE MADE MINERAL FIBRE:**

(excluding Refractory Ceramic Fibre and Special Purpose Fibres): 2.0 fibres/ml & 5 mg/m; (8 hr TWA)

**FINE CARBON DUST:** 3.5 mg/m; (8 hr TWA) and 7 mg/m; (15 minute reference))

**RESPIRATORY PROTECTION:** Use local ventilation systems where available. If workplace exposures exceed the limits wear disposable dust respirator to EN149:2001 FFP2 minimum

**HAND PROTECTION:** Use of disposable nitrile rubber 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

**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 200°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

**STABILITY / CONDITIONS TO AVOID:** Stable.

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

**HAZARDOUS DECOMPOSITION PRODUCTS:** Decomposition of the polymeric binder will occur at temperature above 200°C releasing smoke, H<sub>2</sub>O, CO, CO<sub>2</sub> and hydrocarbons. When heated above 250°C the graphite will expand resulting in a thermally insulation char.

**HAZARDOUS POLYMERISATION:** Will not occur

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## 11. TOXICOLOGICAL INFORMATION

**MINERAL WOOL FIBRE:**

Coarse fibres: in common with other man-made mineral fibres the vitreous silicate fibres in this product are mechanical irritants which may result in temporary irritation of the throat, eyes or skin.

Respirable fibres: the mineral wool fibres in these products contain fibres which are less than 3.0µm diameter and greater than 5.0µm long and which are classified as respirable.

Animal studies: short term inhalation studies of rats exposed to high levels of stone wool fibres have shown that the long fibres are biodegradable and quickly disappear from the lungs.  
Human Epidemiological studies: large morbidity and mortality studies of both European and North American mineral wool manufacturing workers have been conducted with traditional mineral wools. The studies found no significant evidence of non-malignant lung disease (e.g. fibrosis) The studies did not establish a causal relationship between exposure to traditional mineral wools and malignant diseases (lung cancer or mesothelioma). The particular mineral wool fibre used in the products covered by this SDS is based on a new formulation with increased bio-solubility giving even more rapid clearance of fibres from the lungs compared with traditional mineral wools.

**GRAPHITE:**

Powdered graphite is non-toxic. High levels of airborne graphite dust may be a mechanical eye irritant. Skin contact with graphite dust may cause temporary irritation due to mechanical effects; repeated prolonged exposures may lead to dermatitis. Airborne graphite dust is an upper respiratory irritant; exposures may aggravate pre-existing upper respiratory and lung diseases. Cases of pneumoconiosis, pulmonary fibrosis and emphysema have been reported in workers following prolonged exposures to high levels of airborne graphite dust.

**POLYMERIC BINDER AND SELF ADHESIVE COATING:**

The Polymeric binder and SAB coating are considered to be non-hazardous.

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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 windblown during transportation.  
Ensure that dust or fibres are not wind-blown during transportation.

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**15. REGULATORY INFORMATION**

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Product Hazard Classification according to Directive 67/548 EEC:  
Not classified

Product Hazard Classification according to Regulation CE1272/2008:  
Article - not classified

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**16. OTHER INFORMATION**

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Notes: revised and reissued with minor changes 6<sup>th</sup> September 2018

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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