

# SAFETY DATA SHEET



**ENVIROGRAF®**

HS055-RS/FFCB-10-2018

## Product Number: 55 Rainscreen Fast Fix Cavity Barrier

### **Description:**

An effective solution for ventilated rainscreen cavities available in a range of sizes allowing for a continuous air gap of up to 25mm and up to 40mm. The Fast Fix cavity barrier combines high-density rock fibre with intumescent coating on both sides and an intumescent strip which, in the event of a fire will seal the ventilation gap. Supplied in 1220mm lengths with 3 fixing brackets per length.

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

- *(Appendix 1)* – Multigraf intumescent material
- *(Appendix 4)* – Rock Fibre
- *(Appendix 6)* – Intumescent Slab Coating
- *(Appendix 55)* – PVC Laminate

\*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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<b>PRODUCT NAME:</b>	Multigraf Intumescent Material
<b>MANUFACTURER/SUPPLIER:</b>	Intumescent Systems Ltd
<b>ADDRESS:</b>	Envirograf House, Barfrestone, Dover, Kent, CT15 7JG
<b>TELEPHONE / FAX / EMAIL:</b>	01304 842555    01304 842666    sales@envirograf.com
<b>EMERGENCY PHONE NUMBER:</b>	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**

**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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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

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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:** 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

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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 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

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**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

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**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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# HEALTH & SAFETY INFORMATION SHEET

## APPENDIX 4

### Rock Fibre Slabs

Issue 3, 7<sup>th</sup> September 2018

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

<b>1.1 Product Identifier:</b>	Rock Fibre Slabs
<b>1.2 Relevant identified uses of the substance or mixture and uses advised against</b>	Thermal insulation, acoustic insulation and fire protection in building applications. No uses advised against for physical, health and environmental considerations as covered by REACH
<b>1.3 Manufacturer/supplier:</b>	Envirograf
<b>Address:</b>	Envirograf house, Barfrestone, Dover, Kent, CT15 7JG
<b>Telephone/fax/email:</b>	01304 842555 01304 842666 sales@envirograf.com
<b>1.4 Emergency phone number:</b>	01304 842555 (Monday to Friday 8.30 – 5.30)

#### 2. HAZARDS IDENTIFICATION

**2.1 Classification of the substance or mixture:** There is no hazard statement associated with this material. Rock fibre mineral wool is not classified as dangerous according to Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures (CLP)

**2.2 Label elements:** The overall conclusion in accordance with the CLP regulation, REACH regulation and the Globally Harmonised System (GHS) is that there are no hazardous classifications associated with Rock fibre mineral wool fibres in respect to physical health and environmental considerations.

**2.3 Other hazards:**

Use of high speed cutting tools can generate dust.

If in contact with constant heat >175°C, the binder will be slowly broken down.

Further information can be found in Section 8.

#### 3. COMPOSITION / INFORMATION ON INGREDIENTS

Substance	EC Identification number	REACH Registration number	Content (% weight)	Classification, labelling & packaging [EU Regulation (CE) 1272/2008]
Stone wool <sup>1</sup>	926-099-9	01-211-947-2313-44	95-100%	Not classified <sup>2</sup>
Synthetic thermosetting polymer binder			0-5%	Not Classified
Mineral oil			0-0.5%	Not Classified
Silicon oil/emulsion <sup>3</sup>			0-0.5%	Not classified

<sup>1</sup> Man-made vitreous (silicate) fibres with random orientation with alkaline oxide and alkali earth oxide (Na<sub>2</sub>O+K<sub>2</sub>O+CaO+MgO+BaO) content greater than 18% by weight and fulfilling one of the Nota Q conditions of Regulation 1272/2008

<sup>2</sup> Note Classified H351 "suspected of causing cancer". Stone wool insulation fibres are not classified as carcinogenic in accordance with Note Q of Regulation 1272/2008. Stone wool products do not contain CLP classified substances >0.1%

<sup>3</sup> Silicon oil/emulsion is used in place of mineral oil in certain stone wool products

#### 4. FIRST AID MEASURES

##### 4.1 Description of first aid measures

**Inhalation:** Remove from exposure. Rinse the throat and clear dust from airways

**Skin:** If itching occurs, remove contaminated clothing & wash skin gently with clean cold water & mild soap.

**Eyes:** Rinse abundantly with clean water for at least 15 minutes.

**Ingestion:** If accidentally ingested, drink plenty of water.

**4.2 Most important symptoms & effects, both acute & delayed:** The mechanical effect of fibres in contact with skin may cause temporary itching/inconvenience.

**4.3 Indication of any immediate medical attention & special treatment needed:** None required, if any adverse reaction or discomfort continues from any of the above exposures, seek professional medical advice.

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## 5. FIRE-FIGHTING MEASURES

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### 5.1 Extinguishing media

**Suitable extinguishing media:** Water, foam, carbon dioxide (CO<sub>2</sub>), and dry powder

**Unsuitable extinguishing media:** None

**5.2 Special hazards arising from the substance or mixture:** None special. Use normal body and respiratory protection for fire.

**5.3 Advice for firefighters:** The unfaced products are non-combustible, some packaging materials or facing may however be combustible.

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## 6. ACCIDENTAL RELEASE MEASURES

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**6.1 Personal precautions, protective equipment & emergency procedures:** In case of presence of high concentrations of dust, use the same personal protective equipment as described in Section 8

**6.2 Environmental precautions:** None required

**6.3 Methods & materials for containment & cleaning up:** Dampen with water spray before sweeping or use vacuum equipment

**6.4 Reference to other sections:** For personal protection equipment see Section 8. For waste disposal, see Section 13

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## 7. HANDLING AND STORAGE

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**7.1 Precautions for safe handling:** No specific measures. Preferably use a knife for cutting. If a power tool is used, provide effective dust extraction. Ensure adequate ventilation of workplace. See Section 8. Avoid unnecessary handling of unwrapped product. See Section 8.

### 7.2 Conditions for safe storage, including any incompatibilities:

**Technical measures:** No special measures necessary.

**Suitable storage conditions:** Products should be kept dry, if possible in original packaging

**Incompatible materials:** None

**Packaging material:** Products are typically packed in polyethylene film, cardboard and/or on wooden pallets.

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## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

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### 8.1 Control parameters:

Workplace exposure limit (WEL) 5mg/m<sup>3</sup> gravimetric measure (total inhalable dust) & 2 fibres/ml airborne fibre limit, 8-hour time weighted averages. HSE guidance assumes that the gravimetric measures would be reached before the fibre measure. (Ref. HSE EH40)

### 8.2 Exposure controls

**8.2.1 Appropriate engineering controls:** No specific requirements

#### 8.2.2 Individual protection measures, such as personal protective equipment:

- **Eye protection:** With heavy dust development or particularly when working with product above shoulder height, the use of safety goggles to EN166 is advised.
- **Hand protection:** Use gloves conforming with EN 388 to avoid itching
- **Skin protection:** Cover exposed skin
- **Respiratory protection:** When working in unventilated areas or during operations which can generate emission of (various) dusts, wearing a disposable face mask in accordance with EN149 FFP1 is recommended.

At high temperatures not usually found in building construction (>175°C), the product binder will slowly decompose and trace gases will be released. When high temperature appliances are first put into service, gases should be vented to control exposure to fumes or appropriate respirators used.

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

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### 9.1 Information on basic physical and chemical properties

**Appearance:** Solid grey-green

**Odour:** Odourless

**Odour threshold:** Not applicable

**pH:** Not relevant. Solid

**Melting point:** >1000°C

**Initial boiling point and boiling range:** Not relevant. Solid

**Flash point:** Not relevant - non-combustible (re UK & Ireland Building Regulations)

**Evaporation range:** Not applicable

**Flammability:** Not relevant - non-combustible (re UK & Ireland Building Regulations)

**Upper/lower flammability or explosive limits:** Not relevant - non-combustible (re UK & Ireland Building Regulations)

**Vapour pressure:** Not relevant. Solid

**Vapour density:** Not relevant. Solid

**Relative density:** Depends on product type (ty. Between 20 and 300 kg/m<sup>3</sup>)

**Solubility:** Generally chemically inert and insoluble in water

**Partition coefficient n-octanol/water:** Not relevant. Insoluble in water

**Auto-ignition temperature:** Not relevant - non-combustible (re UK & Ireland Building Regulations)

**Decomposition temperature:** When heated to approx. 175°C for the first time, release of binder decomposition products occurs.

**Viscosity:** Not relevant. Solid

**Explosive properties:** Not relevant - non-combustible (re UK & Ireland Building Regulations)

**Oxidising properties:** Not relevant. Non-oxidising

**9.2 Other information:** No further chemical or physical properties to report.

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## 10. STABILITY AND REACTIVITY

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**10.1 Reactivity:** Not reactive

**10.2 Chemical stability:** Stable

**10.3 Possibility of hazardous reactions:** Not reactive

**10.4 Conditions to avoid:** None specified

**10.5 Incompatible materials:** None specified

**10.6 Hazardous decomposition products:** When insulation wool is heated to approximately 175°C for the first time, release of binder decomposition products occurs. See 8.2.2

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## 11. TOXICOLOGICAL INFORMATION

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### 11.1 Information on toxicological effects

**Acute toxicity:** No acute toxicity

**Irritation:** In the case of coarser fibres there can be mechanical effects on skin, upper respiratory system (mucous membranes) and eyes that can cause temporary, self-fading effects (e.g. itching). No chemical effects ensue.

**Corrosivity:** No corrosivity

**Sensitisation:** No sensitisation

**Repeated dose toxicity:** No repeated dose toxicity.

**Carcinogenicity:** None. Owing to its high bio-solubility, the fibre used in stone wool insulation materials is assessed as free from suspicion of possible carcinogenic effects in accordance with Regulation (EC) No 1272/2008 (Ref: Note Q). In October 2001, the International Agency for Research on Cancer (IARC) classified rock (stone) wool insulation as Group 3 (not classifiable as to its carcinogenicity in humans) i.e. not suspected of causing cancer in humans.

**Mutagenicity:** No mutagenicity

**Toxicity for reproduction:** No toxicity for reproduction.

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## 12. ECOLOGICAL INFORMATION

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**12.1 Toxicity:** None. This product is not expected to cause harm to animal or plants during normal conditions of use. Stone wool is principally made from non-scarce rock material and recycled stone wool.

**12.2 Persistence and degradability:** None

**12.3 Bioaccumulative potential:** None

**12.4 Motability in soil:** None

**12.5 Results of PBT and vPvB assessment:** No assessment required

**12.6 Other adverse effects:** Relying on entrapped air for its thermal properties, the products do not and never have used blowing agents with Ozone Depleting Potential or Global Warming Potential.

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## 13. DISPOSAL CONSIDERATIONS

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### 13.1 Waste treatment methods

Rock fibre material is recyclable

Rock fibre material is classified as non-hazardous waste. Rock fibre insulation waste is covered by the non-hazardous entry "17 06 04 insulation materials other than those mentioned in 17 06-01 and 17 06 03" in the European Waste Catalogue, established by EC Decision 2000/532/EC (hazardous waste) Under landfill regulations rock fibre insulation waste is categorized as "waste accepted at landfills for non-hazardous waste in accordance with EC Decision 2003/33/EC (landfill acceptance criteria)

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## 14. TRANSPORT INFORMATION

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**14.1 UN Number:** Not applicable

**14.2 UN Proper shipping name:** Not applicable

**14.3 Transport hazard class(es):** Not applicable

**14.4 Packing Group:** Not applicable

**14.5 Environmental hazards:** Not applicable

**14.6 Special precautions for user:** None specified

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## 15. REGULATORY INFORMATION

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**15.1 Safety, health and environmental regulations / legislation specific for the substance or mixture:** The overall conclusion in accordance with the CLP, GHS and REACH regulations is that there are no hazardous classifications associated with rock fibre in respect to physical health and environmental aspects.

**15.2 Chemical safety assessment:** No assessment required.

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## 16. OTHER INFORMATION

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This Safety Data Sheet has been prepared in accordance with European Commission Regulation (EU) No. 453/2010 (REACH).

Although REACH Regulations do not require a safety data sheet to be provided for stone wool insulation, this format is used to provide standardized health and safety information.

All stone wool insulation products supplied by Envirograf are made of fibres exonerated from classification as a carcinogen in accordance with Regulation (EC) No. 1272/2008 (ref. Nota Q).

Stone wool fibres are subject to independent assessment by EUCEB.

Membership of the EUCEB certification scheme is voluntary and certifies compliance with the parameters laid down in Nota Q, as defined by Regulation (EC) No. 1272/2008.

This data sheet does not constitute a workplace assessment.

The information provided represents the state of our knowledge regarding this material at the date of its publication.

The information provided does not constitute a product specification and no warranty expressed or implied is hereby made.

The information relates only to the specific material designated when used in applications it has been designed for. This information may not be valid for such material used in combination with any other materials or in any other processes, unless specified in the text.

## History

**Date of revision** 7<sup>th</sup> September 2018

**Reason for revision** General review / change of format

**Sections revised** All sections revised

The information contained in the Health and Safety Data Sheet is provided in accordance with the requirements of the most recent REACH Regulations. The product should not be used for purposes other than those shown 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 EU 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 6**  
**SLAB COAT**

14<sup>th</sup> April 2015 ISSUE 2

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

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PRODUCT NAME:	Slab Coat
MANUFACTURER/SUPPLIER:	Envirograf
ADDRESS:	Envirograf House, Barrestone, Nr 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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**HEALTH EFFECTS:**

<b>SKIN:</b>	May cause slight irritation on prolonged / repeated contact.
<b>EYES:</b>	May cause some irritation.
<b>INHALATION:</b>	No hazard under normal conditions of use.
<b>INGESTION:</b>	Low toxicity.
<b>PHYSICAL/CHEMICAL EFFECTS:</b>	Not applicable

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**3. COMPOSITION / INFORMATION ON INGREDIENTS**

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<b>CHEMICAL CHARACTERIZATION:</b>	Aqueous (emulsion) polymer system
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**4. FIRST AID MEASURES**

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**SKIN CONTACT:** Remove contaminated clothing and wash contaminated skin with soap and water.  
**EYE CONTACT:** Wash with water for several 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.

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**5. FIRE-FIGHTING MEASURES**

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**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.

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**6. ACCIDENTAL RELEASE MEASURES**

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**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.

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**7. HANDLING AND STORAGE**

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**HANDLING PRECAUTIONS:** Avoid contact with skin and eyes.  
**STORAGE CONDITIONS:** Store in closed containers between + 5°C and + 30°C in dry conditions. Avoid extremes of temperature. Protect from frost.

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## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

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**CONTROL PARAMETERS:** Not applicable.

**ENGINEERING MEASURES:**

**PERSONAL PROTECTION EQUIPMENT:**

**RESPIRATORY PROTECTION:** Not applicable.

**HAND PROTECTION:** Gloves.

**EYE PROTECTION:** Goggles.

**SKIN AND BODY PROTECTION:** Wear suitable protective clothing.

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

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<b>COLOUR:</b>	White.
<b>FORM:</b>	High viscosity gel / paste.
<b>ODOUR:</b>	Slight.
<b>PH AS SUPPLIED:</b>	7.0 to 8.5
<b>BOILING POINT/RANGE:</b>	Not applicable.
<b>MELTING POINT/RANGE:</b>	Not applicable.
<b>FLASH POINT:</b>	Not applicable.
<b>FLAMMABILITY (SOLID/GAS):</b>	Not applicable.
<b>AUTOIGNITION TEMPERATURE:</b>	Not applicable.
<b>EXPLOSIVE PROPERTIES:</b>	Not applicable.
<b>OXIDISING PROPERTIES:</b>	Not applicable.
<b>VAPOUR PRESSURE:</b>	Not applicable.
<b>BULK DENSITY:</b>	1.40 to 1.43g/cm <sup>3</sup>
<b>SOLUBILITY:</b>	
<b>WATER SOLUBILITY:</b>	Miscible.
<b>PARTITION COEFFICIENT:</b>	Not applicable.
<b>(n-octanol/water)</b>	
<b>OTHER DATA</b>	

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## 10. STABILITY AND REACTIVITY

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**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.

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## 11. TOXICOLOGICAL INFORMATION

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Not applicable.

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## 12. ECOLOGICAL INFORMATION

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Not applicable.

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## 13. DISPOSAL CONSIDERATIONS

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Dispose of in accordance with local regulations at approved sites.

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#### 14. TRANSPORT INFORMATION

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**UK ROAD/RAIL:** Not applicable. None hazardous.  
**IMDG:** Not applicable. None hazardous.  
**ICAO:** Not applicable. None hazardous.  
**ADR:** Not applicable. None hazardous.

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#### 15. REGULATORY INFORMATION

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**SUPPLY CLASSIFICATION:**

**HAZARD SYMBOL(S):** None.

**RISK PHRASES:** Irritating to eyes and skin.

**SAFETY PHRASES:** Avoid contact with skin and eyes.

Wear suitable protective clothing, gloves and eye/face protection.

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#### 16. OTHER INFORMATION

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**RECOMMENDED USE:** Adhesive for use with fire retardant / resistant assemblies.

**FURTHER INFORMATION:** Consult technical data sheet.

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**HEALTH & SAFETY INFORMATION SHEET**  
**APPENDIX 55**  
**PVC SHEETING**

26<sup>th</sup> July 2018 Issue 3

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

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PRODUCT NAME:	PVC Sheeting - Laminate
MANUFACTURER/SUPPLIER:	Envirograf
ADDRESS:	Envirograf House, Barfrestone, Dover, Kent, CT15 7JG
TELEPHONE / FAX / EMAIL:	01304 842555    01304 842666    sale@envirograf.com
EMERGENCY PHONE NUMBER:	01304 842555

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**2. HAZARDS IDENTIFICATION**

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**Description of hazards:** No hazards under normal conditions of use

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**3. COMPOSITION / INFORMATION ON INGREDIENTS**

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**Chemical characterization:**

The article is based on polyvinyl chloride, plasticizer (DOTP) and additives.  
DOTP: bis (2-ethylhexyl) tereftalaat, CAS-nr: 6422-86-2

**REACH relevant information (in accordance to art. 33 of the REACH-regulations):**

The article contains no substances included on the candidate list (status 27-06-2018)

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**4. FIRST AID MEASURES**

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**In general:** no need for particular precautionary measures.

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**5. FIRE FIGHTING MEASURES**

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**Suitable extinguisher means:** Water, foam, CO2 and dry extinguishing agents

**Special hazards:** Under fire conditions, fumes can contain carbon monoxide (CO), carbon dioxide (CO2), water vapour and hydrogen chloride (HCl). Explosive mixtures can arise due to decomposition.

**Personal protective equipment:** In case of fire, a breathing protection with combination filter ABEK-CO NO and rubber boots are to be worn. In case of high concentration of fumes, a self contained breathing apparatus is to be used.

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**6. ACCIDENTAL RELEASE MEASURES**

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Not applicable for such articles.

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**7. HANDLING AND STORAGE**

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**Technical protective measures:** No need for particular precautionary measures under normal condition of use.

**Protection against fire and explosion:** General regulations for preventative protection are recommended. Under unfavourable circumstances, especially in case of low relative humidity, a static electricity charge of the film can arise during unwinding.

**Storage:** In order to keep the properties of the film, it's advised to store it cool and dry in closed rooms. Do not expose directly to sun radiation and heat sources. The film is resistant to higher temperatures but preferably not stored over 30°C or below 10°C.

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## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

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<b>Technical measures:</b>	Measures against static electricity are to be taken (see; "handling and storage"). During thermal processing sufficient ventilation should be provided.
<b>Personal protective equipment:</b>	Not necessary.
<b>Skin protection:</b>	Dermatologic and allergenic reactions, sensitivity and irritation are not known.
<b>Eye protection:</b>	Not necessary.
<b>Industrial hygiene measures:</b>	No need for particular precautionary measures.

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

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	Solid film
<b>Odour:</b>	slight and typical characteristic odour
<b>Explosive limits:</b>	none, see par. 7
<b>Density (23°C):</b>	about 1.3 / 1.5 gr/cm <sup>3</sup>
<b>Solubility in water:</b>	Practically not soluble
<b>Further details:</b>	None

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## 10. STABILITY AND REACTIVITY

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<b>Dangerous reactions:</b>	None
<b>Thermal decomposition:</b>	None, under normal conditions of use. In not suitable processing conditions, a thermal decomposition cannot be excluded. Thermal decomposition may produce carbon monoxide, carbon dioxide, nitrogen oxides and flammable mixtures.
<b>Further details:</b>	None

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## 11. TOXICOLOGICAL INFORMATION

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According to present knowledge, no harmful effects are known at adequate use of the product.

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## 12. ECOLOGICAL INFORMATION

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Under normal conditions of use, no negative effects on the environment and no hazards have been reported.

**Recycling:** Recycling of the film is possible.

**Disposal:**

**Film:** can be disposed with household waste, if in compliance with local or state laws and regulations.

**Packaging:** can be disposed with household waste, if in compliance with local or state laws and regulations

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## 13. DISPOSAL CONSIDERATIONS

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<b>Product residues:</b>	Gather into waste containers. Destroy according to the rules given by Local Authorities.
<b>Packaging waste:</b>	Collect and destroy according to local rules.

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## 14. TRANSPORT INFORMATION

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Not dangerous goods according to transport regulations.

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## 15. REGULATORY INFORMATION

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### Labelling:

- Labelling according to EC-regulation: no labelling is necessary.
- Labelling according to hazardous material regulation: no labelling is necessary.
- Water hazard classification: not water hazardous.

**Other regulations, limitations:** None

**Transport information:** No dangerous goods according to transport regulations.

### The material is conforming to the:

- Regulation (EC) no. 1907/2006 (REACH)
  - European Toy Norm NEN-EN 71-3, NEN-EN 71-9
  - European Directive 94/62/EC on packaging and packaging waste
  - The Packaging Regulations 1998 No.1165 (UK)
  - Directive 2002/95/EC (RoHS), repealed by Directive 2011/65/EU
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## 16. OTHER INFORMATION

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Unless otherwise stated, this sheet applies for sheeting in unshaped condition.

This information is based on our present knowledge and our experience with the product but is in no way exhaustive. Sheet deals with the product in the state as described in the specifications. In case of combination or mixing with other products from case to case it has to be investigated whether no new risks are introduced.

No case accepted, the user of the product is obliged to follow local laws and regulations with respect to working place hygiene and protection. The details within this document do not have the meaning of property assurances. For warranties and liabilities our general terms of delivery and sales conditions are valid.

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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.

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