

# SAFETY DATA SHEET



**ENVIROGRAF®**

HS055-CAVITY STRIP-10-2018

Product Number: 55

CV Cavity Strip Barrier

**Description:**

The Envirograf® flexible strip range barrier is a thin flexible PVC and foiled clad intumescent material with a self-adhesive backing tape for adhering to the wall.

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

- (Appendix 35) – Graphite Mix Intumescent Material
- (Appendix 51) – Scrim Tape
- (Appendix 55) - PVC Laminate

*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.*

\*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**  
**GRAPHITE MIX 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>	Graphite Mix 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

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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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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 Dark Grey or Black fibrous mat

**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 3<sup>rd</sup> December 2016

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 51

### Scrim Tape

Issue 3,

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

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<b>PRODUCT NAME:</b>	Scrim Tape
<b>MANUFACTURER/SUPPLIER:</b>	Envirograf
<b>ADDRESS:</b>	Envirograf House, Barfreestone, Dover, Kent, CT15 7JG
<b>TELEPHONE/FAX/EMAIL:</b>	01304 842555    01304 842666    sales@envirograf.com
<b>EMERGENCY PHONE NUMBER:</b>	01304 842555

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#### 2. HAZARDS IDENTIFICATION

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**Not classified as dangerous according to EC directives.**

*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.*

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#### 3. COMPOSITION / INFORMATION ON INGREDIENTS

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**Composition: General Components:**

**Support:** PES/PVA scrim  
**Interliner:** Release paper, yellow, 90 g/m<sup>2</sup>  
**Adhesive:** Modified polyacrylic

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#### 4. FIRST AID MEASURES

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**After inhalation:** Not relevant  
**After contact with the skin:** Not relevant  
**After contact with the eyes:** Not relevant  
**After swallowing:** Not relevant

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#### 5. FIRE-FIGHTING MEASURES

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**Appropriate extinguishing agents:** spraying water, dry extinguishing agent, foam

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#### 6. ACCIDENTAL RELEASE MEASURES

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Not applicable

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#### 7. HANDLING AND STORAGE

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**Handling:** -

**Storage:** the product should be stored in their original packaging under dry conditions, ideally at room temperature but not warmer than 30°C. High relative humidity and direct sunlight must be avoided at all costs. Ideally stored at cool temperatures.

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## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

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**Breathing apparatus:** Not necessary  
**Eye protection:** Not necessary  
**Hand/body protection:** Not necessary

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

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**Colour:** Transparent  
**Odour:** Typical  
**Density:** 0,8 – 1,0 g/cm<sup>3</sup>

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## 10. STABILITY AND REACTIVITY

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**Dangerous reactions:** Not relevant  
**Dangerous decomposition processes:** Not relevant

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## 11. TOXICOLOGICAL INFORMATION

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**Acute toxicity:**    **LD50 oral:** Not relevant    **LD50 Dermal:** Not relevant

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## 12. ECOLOGICAL INFORMATION

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Adhesive, support and interliner are almost completely without solvents, chlorides and heavy metals. Therefore, special disposal measures are not necessary.  
The product is not considered to be environmentally dangerous.

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## 13. DISPOSAL CONSIDERATIONS

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**Small quantities:** Household waste  
**Larger quantities:** Industrial waste  
**Disposal:** can be disposed of in a suitable rubbish tip or incineration plant in accordance with local authority regulations  
EAKV key for the unused product 200139 (plastic small parts)  
Thermal recycling with with simplified recycling certificate: if the product contains PVC parts (see point 2 above: support), thermal recycling must be clarified with the local recycling agency.

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## 14. TRANSPORT INFORMATION

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No a hazardous material in the sense of transport regulations.

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## 15. REGULATORY INFORMATION

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**H-Phrases:** Not relevant  
**TA sir class:** Not relevant

Not subject to the regulations on flammable liquids

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## 16. OTHER INFORMATION

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In accordance with the hazardous substances ordinance (regulations on dangerous substance) safety data sheets are only required for dangerous substances, products and preparations. Adhesive tapes are products of various nature as defined by regulations for chemicals, and here no safety data sheets are required. In order to satisfy our customers' needs for information, we state here the relevant information for working with our adhesive tapes, following directive 91/155/EEC and regulation (EC) No. 1907/2006 on the production/drawing up of data sheets

All the information given above represents our present state of knowledge.

This information describes the product in respect of safety data. It does not represent a statement of characteristics in the sense of a technical specification.

### History

**Date of revision** 10<sup>th</sup> September 2018

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

**Sections revised** All sections reviewed

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

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# HEALTH & SAFETY INFORMATION SHEET

## APPENDIX 55

### PVC SHEETING - Laminate

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, CO<sub>2</sub> and dry extinguishing agents

**Special hazards:** Under fire conditions, fumes can contain carbon monoxide (CO), carbon dioxide (CO<sub>2</sub>), 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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**Technical measures:** Measures against static electricity are to be taken (see; "handling and storage"). During thermal processing sufficient ventilation should be provided.

**Personal protective equipment:** Not necessary.

**Skin protection:** Dermatologic and allergenic reactions, sensitivity and irritation are not known.

**Eye protection:** Not necessary.

**Industrial hygiene measures:** 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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**Dangerous reactions:** None

**Thermal decomposition:** 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.

**Further details:** 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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**Product residues:** Gather into waste containers. Destroy according to the rules given by Local Authorities.

**Packaging waste:** 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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