



Product Number: 92

### ES/VFR Clear Fire Protection Coating

#### Description:

The ES/VFRC System offers a clear coating; suitable for upgrading new and already coated timber and wood related surfaces & UPVC to BS476: Part 6 & 7, Class 0 & 1, UK Building Regulations, also EU EN SBI Test to B/S1/d0 of European Standards, EN13505, EN13823:2002 Single Burn and SBI EN11925:2 2002 Ignitability.

#### Physical Data:

Type:	Water based fire protection product.
Colour:	Clear
Gloss:	N/A
Specific Gravity:	1.00

#### Recommendations for Use:

Recommended spreading rate:	10m <sup>2</sup> /ltr
Application methods:	Brush, roller or spray
Dry to touch:	1-2 hours. Varies with temperature humidity ventilation and film thickness.
Conditions during application:	Temperature of air and substrate must be above 5 °C.

#### Miscellaneous:

Size of containers:	1, 2.5, 5 & 20 litres available
Remarks:	Frost-free freight and storage. STIR WELL before use
Shelf Life:	6 months in unopened original packaging (Stored between 5 - 30 °C)

**Note: Addition of Acticide gives some anti-fungal properties to the coating**



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ES/VFRC is a water-based product for use externally and internally.  
ES/VFRC is clear coating.

#### APPLICATION

**Note:** It is important to ensure the moisture content of the wood substrate is below 12% / 14% before application and the application must be made in a warm, dry area. Ensure the wood is dry before application.

Always mix the tin thoroughly to ensure the product is well mixed. The clear ES/VFRC will look milky, but will dry clear.

Application onto new wood – ensure the area is dust free. ES/VFRC can be applied by roller, brush or spray. If the wood is to be stained (any Sikkens or Jotun specialist product can be applied first or over ES/VFRC). Application – 2 coats at 10m<sup>2</sup> per litre, per coat, ensure first coat is thoroughly dry before applying the second coat.

Add up to 10% water if spraying this product. The contents must be thoroughly mixed before use. Use a 2.5mm to 3mm nozzle.

Application over existing paint or varnish – ensure the surface is thoroughly clean. Apply one coat of Envirograf® ES/VFR/P clear primer at 10-12 m<sup>2</sup> per litre. Then apply ES/VFRC.

ES/VFRC must have a Top Protective Coating. **IT MUST NEVER BE LEFT OVERNIGHT WITHOUT APPLYING THE TOP COAT**

NB. The coverage on the first coat could vary according to the density or type of timber. Proprietary paint / varnish can be used as a final finish if required. For suitable applications, contact our Technical Department. Trials in small areas must always be carried out prior to full application, as colour performance varies according to substrate structure.

If applying ES/VFRC to oak, apply one coat of HWAP Primer first to seal the wood; as oak has iron in it and ES/VFR being water based, may cause the iron to go black. Product 42 HWAP PRIMER MUST BE APPLIED ON CEDAR.

#### Tools

Leave brush in cold soapy water then clean with brush cleaner.

#### AVAILABLE TOP COATS

**ES/VFR HARD-WEARING** is tough hard-wearing satin finish top coat for internal use.

**ES/VFR TRANSLUCENT** is a spirit based product to enhance the natural beauty of the wood for internal and external use.

# SAFETY DATA SHEET



**ENVIROGRAF®**

HS092 ES/VFR/C-03-2019

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

- (Appendix 62) ES/VFR/C

\*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 INFORMATION SHEET**  
**APPENDIX 62**  
*ES/VFR CLEAR*

31<sup>st</sup> January 2019 Issue 5

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

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<b>PRODUCT NAME:</b>	ES/VFR Clear
<b>MANUFACTURER/SUPPLIER:</b>	Envirograf
<b>ADDRESS:</b>	Envirograf House, Barrestone, 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**

Health effects: Main hazard:



**Signal Word**

Warning

Contains 1,2-benzisothiazol-3(2H)-one and 2-methylisothiazol-3(2h)-one  
MAY PRODUCE AND ALLERGIC REACTION

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**3. COMPOSITION / INFORMATION ON INGREDIENTS**

**Chemical characterization:** Aqueous dispersion of a polymer with non-hazardous fire retardant and intumescent additives.

Chemical Name	CAS No.	EINECS Number	%	Classification
1,2-benzisothiazol-3(2H)-one	2634-33-5		< 0.1	H317 May cause an allergic reaction
2-methylisothiazol-3(2H)-one	2682-20-4		< 0.1	H317 May cause an allergic reaction

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**4. FIRST-AID MEASURES**

**Skin contact:** Remove contaminated clothing and wash contaminated skin thoroughly with water. Obtain medical attention if symptoms develop.

**Eye contact:** Wash immediately with copious amounts of water. Seek medical attention if irritation persists.

**Inhalation:** Remove the casualty to fresh air. Obtain medical attention if difficulties persist.

**Ingestion:** If ingested in large amounts then seek medical attention – show the physician this data sheet.

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**5. FIRE-FIGHTING MEASURES**

**Extinguishing media:** Select extinguishing agent appropriate for other materials involved.

**Extinguishing media which must not be used for safety reasons:** None known

**Special exposure hazards:** None known.

**Special protective equipment for fire-fighters:** Wear appropriate protective clothing and suitable breathing apparatus.

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## 6. ACCIDENTAL RELEASE MEASURES

**Personal precautions:** Wear appropriate protective clothing and ensure standard good working industrial practice.

**Environmental precautions:** Try to prevent the material entering drains or watercourses. Advise Authorities if spillage has entered watercourse or sewer or has contaminated soil or vegetation. Dilute as much as possible with water and notify authorities immediately.

**Spillages:** Contain and absorb using earth, sand, cloth or other inert absorbent material.

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## 7. HANDLING AND STORAGE

**Handling precautions:** Wear appropriate protective clothing. Adequate ventilation should be provided if there is risk of mist or aerosol formation.

**Storage conditions:** Store in closed containers between + 5°C and + 30°C in dry conditions. Avoid extremes of temperature. Protect from freezing. Normal ventilation is adequate

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## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### Occupational Exposure Standards

**Personal protection equipment:**

**Respiratory protection:** Not normally required, use in case of insufficient exhaust ventilation or prolonged exposure.

**Hand protection:** Wear impermeable nitrile or rubber gloves.

**Eye protection:** Wear safety goggles.

**Skin and body protection:** Wear suitable overalls. Wash off any splashes immediately. No eating drinking or smoking in the work place. Practice good personal hygiene.

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

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<b>Colour:</b>	White (dries clear)
<b>Form:</b>	Liquid.
<b>Odour:</b>	Mild.
<b>pH as supplied:</b>	8-9
<b>Boiling point/range:</b>	~ 100°C.
<b>Freezing point/range:</b>	~ 0°C.
<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>Vapour pressure:</b>	Not applicable.
<b>Bulk density:</b>	1.06 to 1.12g/cm <sup>3</sup>
<b>Solubility:</b>	
<b>Water solubility:</b>	Miscible.
<b>Partition coefficient: (n-octanol/water)</b>	Not determined.
<b>Other data:</b>	

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## 10. STABILITY AND REACTIVITY

**Stability:** Stable under normal conditions.

**Materials and Conditions to avoid:** No hazardous reactions when stored and handled to prescribed instructions.

**Hazardous decomposition products:** No decomposition if stored and applied as directed. Thermal decomposition may generate oxides of carbon and phosphorus.

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## 11. TOXICOLOGICAL INFORMATION

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**Mono-propylene glycol methyl ether**

**Acute Toxicity:**

**Reproduction toxicity:**

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## 12. ECOLOGICAL INFORMATION

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Do not allow product to enter soil, waterways or waste water.

**Information on components:**

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## 13. DISPOSAL CONSIDERATIONS

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**Product:** Recommended disposal of this product is in accordance with local regulations at approved sites. Incineration is suitable.

**Uncleaned packaging:** Contaminated packaging should be emptied as far as possible and after cleansing may be reused. Packaging that cannot be cleaned should be disposed of as product waste.

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## 14. TRANSPORT INFORMATION

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**UN Class:** This product is not classified as dangerous goods under the United Nations Transport Recommendations.

**UN Packing group** No special requirements.

**ADR** Not regulated for transport.

**RID** Not regulated for transport.

**IMDG** Not regulated for transport.

**IATA** Not regulated for transport.

**Further information:** Dispatch by post permitted.

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## 15. REGULATORY INFORMATION

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**Labelling / Supply classification:** No classification required according to directive 67/548/EEC, Directive 1999/45/EC and further amendments and adaptations.

**National regulations:** Water Hazard Class (Ger.): 2 (according to VwVwS, 17.05.199)

**Safety phrases** S2 – Keep out of the reach of children

S23 – Do not breathe vapour/spray.

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## 16. OTHER INFORMATION

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**Recommended use** Coating with fire retardant / intumescent properties.

**Further information** Consult technical data sheet.

**H-Phrase from section 3** H317 May cause an allergic reaction

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.