



# **Envirograf<sup>®</sup>**

## Fire Prevention Products

### HEALTH & SAFETY INFORMATION SHEET

PRODUCT 92  
ES/VFR CLEAR COAT

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

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PRODUCT NAME: ES/VFR Clear Coat  
MANUFACTURER/SUPPLIER: Environmental Seals Ltd  
ADDRESS: Envirograf House, Barrestone, 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 CHARACTERISATION: Aqueous dispersion of a copolymer of acrylic ester and a copolymer of vinyl acetate and crotonic acid and fire retardant additives. Contains 3% ethanol (CAS No.64-17-5) and 1% ester alcohol. (CAS No.25265-77-4).

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#### 3. HAZARDS IDENTIFICATION

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SKIN CONTACT: May cause mild irritation with prolonged / repeated contact for people with sensitive skin.  
EYE CONTACT: May cause irritation.

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#### 4. FIRST AID MEASURES

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SKIN CONTACT: Remove contaminated clothing and wash contaminated skin with water before the product dries.  
EYE CONTACT: Wash with water for several minutes. If irritation persists seek medical advice.  
INGESTION: Give plenty of water to drink and 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 MEDIAS WHICH MUST NOT BE USED FOR SAFETY REASONS: None known.  
SPECIAL EXPOSURE HAZARDS: None known.  
SPECIAL 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: Soak up excess on an inert absorbent (e.g. sand) and dispose of.

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**7. HANDLING AND STORAGE**

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HANDLING PRECAUTIONS ES/VFR should be handled with good industrial safety and hygiene practices. Small levels of volatile organic compounds may accumulate in the headspace of containers, which should be opened in ventilated surroundings.  
STORAGE PRECAUTIONS Store in closed containers between + 5°C and + 25°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: Local exhaust ventilation may be required in circumstances where the product is sprayed, heated or dried.  
ENGINEERING MEASURES:  
PERSONAL PROTECTION EQUIPMENT:  
RESPIRATORY EQUIPMENT: Masks are recommended when spraying.  
HAND PROTECTION: Gloves.  
EYE PROTECTION: Goggles.  
SKIN & BODY PROTECTION: Standard industrial overalls if risk of splashing.

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**9. PHYSICAL AND CHEMICAL PROPERTIES**

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COLOUR:	White; dries clear on most substrates.
FORM:	Liquid.
ODOUR:	Slight, ammonia.
pH AS SUPPLIED:	8.5 to 9.5
BOILING POINT/RANGE:	Approximately 100°C.
MELTING POINT/RANGE:	Not applicable.
FLASH POINT:	Not applicable.
FLAMMABILITY: (solid, gas)	Not applicable.
AUTOIGNITION TEMPERATURE:	Not applicable.
EXPLOSIVE PROPERTIES:	Not applicable.
OXIDIZING PROPERTIES:	Not applicable.
VAPOUR PRESSURE:	As water.
BULK DENSITY:	Approximately 1.1 g/cm <sup>3</sup>
SOLUBILITY:	
WATER SOLUBILITY:	Fully miscible.
PARTITION COEFFICIENT: (n-octanol/water)	Not applicable.
OTHER DATA:	

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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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Long term experience of handling this class of product under Industrial conditions indicates the absence of any chronic or acute effects.

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**12. ECOLOGICAL INFORMATION**

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ES/VFR is totally miscible with water and is progressively diluted if admitted into waterways. The base polymer is slowly biodegraded (>80% by method OECD 302B). In low concentrations (<500mg/litre), the product exhibits low toxicity to fish (OECD 203).

Low concentrations of ES/VFR are unlikely to reduce sludge activity in sewage treatment. The polymer will be largely absorbed by the sludge and thereby removed from the waste water.

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**13. DISPOSAL CONSIDERATIONS**

ES/VFR is not classified as hazardous waste. The polymer can be coagulated and separated from the aqueous solution for landfill or incineration. The remaining liquid should not be discharged into water ways without prior consent. Existing EEC, National and Local Regulations must always be complied with.

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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:	None
SAFETY PHRASES:	None

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**16. OTHER INFORMATION**

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RECOMMENDED USE: Fire resistant coating system.

FURTHER INFORMATION: Consult technical data sheet.

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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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Holman Specialist Paints Ltd.  
1 CENTRAL TRADING ESTATE, SIGNAL WAY,  
SWINDON SN3 1PD  
Tel: 01793 511537 Fax: 01793 431142  
e-mail: sales@holmanpaints.co.uk