



Envirograf®

Fire Prevention Products



HEALTH & SAFETY INFORMATION SHEET

PRODUCT 42 - HW02/E INTUMESCENT COATING - CLEAR

1. IDENTIFICATION OF THE PREPARATION AND COMPANY

Product Name: HW02/E Intumescent Coating - Clear
Manufacturer/Supplier: Environmental Seals Limited
Address: Envirograf House, Barfrestone, Nr. Dover, Kent CT15 7JG
Telephone/Fax number : 01304 842555 / 01304 842666
Emergency Telephone number: 01304 842555

2. COMPOSITION/INFORMATION ON INGREDIENTS

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

Component Name	Codes	Concentration	R Phrases	Classification
Benzyl alcohol	100-51-6	< 1.6%	R20/R22	Xn
Monopropylene glycol methyl ether	107-98-2	< 3.75%	R10	-

3. HAZARDS IDENTIFICATION

Health Effects: Main Hazard No labelling required in accordance with EU Guideline 199:45:I:C.

Skin: May cause mild irritation with repeated contact for individuals with sensitive skin.

Eyes: May cause irritation.

4. FIRST AID MEASURES

Skin Contact: Remove contaminated clothing immediately 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 and show the physician this data sheet.

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5. FIRE FIGHTING MEASURES

Extinguishing Media: involved.	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 closing and suitable breathing apparatus.

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 such as possible with water and notify authorities immediately.
Spillages:	Contain and absorb using earth, sand, cloth or other inert absorbent material.

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.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational Exposure Standards:

Monopropylene glycol methyl ether (CAS No. 107-98-2, EINECS No. 203-539-1) - 1.5%

EU Directive 2000/39/EC OEL TLV (8 hours): 375mg/m³ - 100ppm (2000)

EU Directive 2000/39/EC OEL TLV-STEL (short term): 568mg/m³ - 150ppm (2000)

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 workplace. Practice good personal hygiene.

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9. PHYSICAL AND CHEMICAL PROPERTIES

Colour:	White (dries to a clear coat)
Form:	Liquid
Odour:	Mild
pH as supplied:	6 - 6.5
Boiling Point/Range:	~ 100°C
Freezing Point/Range:	~ 0°C
Flash Point:	Not applicable
Flammability (solid, gas):	Not applicable
Autoignition Temperature:	Not applicable
Explosive Properties:	Not applicable
Vapour Pressure:	Not applicable
Bulk Density:	1.20 to 1.24g/cm ³
Solubility:	
Water solubility:	Miscible
Partition Co-efficient (n-octanol/water)	Not determined
Other Data:	

10. STABILITY AND REACTIVITY

Stability:	Stable under normal conditions
Material 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 phosphorous.

11. TOXICOLOGICAL INFORMATION

Monopropylene glycol Methyl Ether	(CAS No. 107-98-2. EINECS No. 203-539-1)	1.5%
Acute Toxicity:	LD50-oral.rat > 5000 mg/kg	
	LC50-inhalation.rat (4h) 15.000ppm	
Reproduction Toxicity:	Negative	

12. ECOLOGICAL INFORMATION

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

Information on Components:	
- monopropylene glycol methyl ether:	(CAS No. 107-98-2.EINECS No. 203-539-1) 1.5%
	Fish: LC50.96h: 28.000mg/l
	Daphnia: EC50.48 h: 23.300mg/l
	Algae: EC50.168h: 1000mg/l
	Biodegradation in activated domestic sewage: 80% after 28 days.
	The potential to accumulate in biota and pass through the food chain is low (Calculated log Pow is less than 3)

13. DISPOSAL CONSIDERATIONS

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

UN Class	This product is not classified as dangerous goods under the United Nations Transport Recommendations.
UN Packaging 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:	Despatch by post permitted.

15. REGULATORY INFORMATION

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. 1705.1999)

16. OTHER INFORMATION

Recommended Use	Coating with fire retardant/intumescent properties.
Further Information	Consult technical data sheet.
R-Phrase from Section 2	R10 - Flammable ?R20/22 - Harmful by inhalation and if swallowed.

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.
