



Product Number: 66

### 3-2-1 Fire Retardant Liquid

**Description:**

Envirograf® 3-2-1 is an aqueous, odourless, flame-retardant liquid. For use on many absorbent materials including canvas, cardboard, clothing, curtains, carpets, dust sheets, polyurethane furniture, polystyrene, tents, upholstery, wallpaper, and even some nylon materials. Can be used on living and artificial Christmas trees. **3-2-1** liquid is clear, and items treated with it can be dry cleaned.

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

- Appendix 10 (3-2-1)

\*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 10**  
**321 STANDARD FIRE PROTECTION LIQUID**

Issue 2 September 2015

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

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**PRODUCT NAME:** 321 Standard Fire Protection Liquid  
**MANUFACTURER/SUPPLIER:** Envirograf  
**ADDRESS:** Envirograf House, Barfrestone, 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:** The primary routes of exposure to this material is by skin & eye contact. Product may be irritating to the skin & eyes.

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**3. COMPOSITION / INFORMATION ON INGREDIENTS**

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**CHEMICAL CHARACTERISATION:** Complex mixture of Organic & Inorganic compounds

<b>HAZARDOUS INGREDIENTS: PHRASES</b>	<b>CONCENTRATION (%)</b>	<b>HAZARD SYMBOL,</b>	<b>RISK</b>
n/a	n/a	n/a	n/a

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**4. FIRST AID MEASURES**

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**SKIN CONTACT:** Remove contaminated clothing, wash skin with soap and water. If irritation occurs, seek medical advice.

**EYE CONTACT:** Rinse immediately with plenty of water, seek medical advice.

**INHALATION:** Remove patient to fresh air and seek medical advice.

**INGESTION:** Do not induce vomiting. If conscious give plenty of water or milk. Obtain medical advice.

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**5. FIRE FIGHTING MEASURES**

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**EXTINGUISHING MEDIA:** Select extinguishing media appropriate to other materials involved in/or circumstances of fire.

**SPECIFIC FIRE/EXPLOSION HAZARD:** None known.

**PROTECTIVE EQUIPMENT:** Wear approved respirators, suitable protective clothing and gloves.

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**6. ACCIDENTAL RELEASE MEASURES**

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**PERSONAL PRECAUTIONS:** Avoid creating and breathing any fumes.

**ENVIRONMENTAL PRECAUTIONS**

**MEASURES AFTER SPILLAGE:** Contain spilled material immediately with sand or absorbent material and vacuum or shovel into closable containers for disposal

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**7. HANDLING AND STORAGE**

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**HANDLING:** Avoid contact with skin and eyes when using do not eat, drink or smoke. Ensure adequate ventilation in workplace.

**STORAGE:** Keep containers tightly closed in a cool, well ventilated place. Protect from frost.

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## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

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### PERSONAL PROTECTION:

**RESPIRATORY PROTECTION:** None.

**HAND PROTECTION:** Wear suitable gloves.

**EYE PROTECTION:** Wear face / eye protection.

**BODY PROTECTION:** Wear protective clothing.

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

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<b>PHYSICAL FORM:</b>	Clear Colourless Liquid
<b>ODOUR:</b>	Slight
<b>PH:</b>	7-8 (Neat)
<b>BOILING POINT/RANGE:</b>	Not known
<b>MELTING POINT/RANGE:</b>	Not applicable
<b>FLASH POINT:</b>	Not known
<b>FLAMMABILITY LIMITS:</b>	Not known
<b>RELATIVE DENSITY:</b>	Not applicable
<b>SOLUBILITY IN WATER:</b>	Miscible in water
<b>SPECIFIC GRAVITY:</b>	1.1 – 1.25 at 20°C

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## 10. STABILITY AND REACTIVITY

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**STABILITY:** Stable.

**MATERIALS TO AVOID:** Avoid contact with strong oxidizing agents, strong reducing agents and strong acids.

**HAZARDOUS DECOMPOSITION PRODUCTS:** None known.

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## 11. TOXICOLOGICAL INFORMATION

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**INGESTION:** Acute toxicity: Oral LD50 (rat) > 2000 mg/kg

**SKIN CONTACT:** May be irritating to skin

**EYE CONTACT:** May be irritating to eyes

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## 12. ECOLOGICAL INFORMATION

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**MOBILITY:** Not known

**PERSISTENCE AND DEGRADABILITY:** Not known

**BIOACCUMULATION:** Not known

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## 13. DISPOSAL CONSIDERATIONS

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**PRODUCT DISPOSAL:** Dispose of in accordance with local regulations. Do not discharge into drains or the environment. Dispose to an authorised waste collection point.

**CONTAINER DISPOSAL:** Treat packages as for product.

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## 14. TRANSPORT INFORMATION

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### UK TRANSPORT INFORMATION

**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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### LABELLING INFORMATION

R PHRASES

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S PHRASES

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## 16. OTHER INFORMATION

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**RECOMMENDED USE:** Flame retardant liquid for use on may absorbent materials

**OTHER INFORMATION:** See technical data sheet

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