

COSHH DATA SHEET



ENVIROGRAF®

HS067-09-2015

Product Number: 67

3-2-1 Special

Description:

Envirograf® 3-2-1 Special is a clear odourless flame retardant liquid for spraying onto most absorbent plastics, nylon foliage, or flowers for example in hotels, hospitals, restaurants, Foyers and for Christmas Grotto materials. 3-2-1 Special has been tested to BS 5852 and when affected by flame, treated materials will turn black but will not hold a flame.

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

- (Appendix 27) Health & Safety Sheet 3-2-1 Special

*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 SPECIAL FIRE PROTECTION LIQUID

Issue 2 September 2015

1. IDENTIFICATION OF THE PREPARATION AND COMPANY

PRODUCT NAME: 321 Special 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)

2. HAZARDS IDENTIFICATION

HEALTH EFFECTS: The primary routes of exposure to this material is by skin & eye contact. Product may be irritating to the skin & eyes.

3. COMPOSITION / INFORMATION ON INGREDIENTS

CHEMICAL CHARACTERISATION: Complex mixture of Organic & Inorganic compounds

| HAZARDOUS INGREDIENTS: PHRASES | CONCENTRATION (%) | HAZARD SYMBOL, | RISK |
|-----------------------------------|-------------------|----------------|------|
| n/a | n/a | n/a | n/a |

4. FIRST AID MEASURES

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.

5. FIRE FIGHTING MEASURES

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.

6. ACCIDENTAL RELEASE MEASURES

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

7. HANDLING AND STORAGE

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.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

PERSONAL PROTECTION:

RESPIRATORY PROTECTION: None.

HAND PROTECTION: Wear suitable gloves.

EYE PROTECTION: Wear face / eye protection.

BODY PROTECTION: Wear protective clothing.

9. PHYSICAL AND CHEMICAL PROPERTIES

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

10. STABILITY AND REACTIVITY

STABILITY: Stable.

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

HAZARDOUS DECOMPOSITION PRODUCTS: None known.

11. TOXICOLOGICAL INFORMATION

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

SKIN CONTACT: May be irritating to skin

EYE CONTACT: May be irritating to eyes

12. ECOLOGICAL INFORMATION

MOBILITY: Not known

PERSISTENCE AND DEGRADABILITY: Not known

BIOACCUMULATION: Not known

13. DISPOSAL CONSIDERATIONS

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.

14. TRANSPORT INFORMATION

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.

15. REGULATORY INFORMATION

LABELLING INFORMATION**R PHRASES**

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S PHRASES

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16. OTHER INFORMATION

RECOMMENDED USE: Flame retardant liquid for spraying onto most absorbent plastics, nylon foliage, or flowers**OTHER INFORMATION:** See technical data sheet

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Product Number: 67

3-2-1 Special Fire Retardant Liquid

Description:

Envirograf® 3-2-1 Special is a clear odourless flame retardant liquid for spraying onto most absorbent plastics, nylon foliage, or flowers for example in hotels, hospitals, restaurants, Foyers and for Christmas Grotto materials. 3-2-1 Special has been tested to BS 5852 and when affected by flame, treated materials will turn black but will not hold a flame.

Material Specification:

| | |
|----------------------------|--|
| CHEMICAL CHARACTERISATION: | Complex mixture of Organic & Inorganic compounds |
| PHYSICAL FORM | Clear Colourless Liquid |
| ODOUR | Slight |
| PH | 7-8 (Neat) |
| MELTING POINT/RANGE | Not applicable |
| RELATIVE DENSITY | Not applicable |
| SOLBILITY IN WATER | Miscible in water |
| SPECIFIC GRAVITY | 1.1 – 1.25 at 20°C |

Ordering References:

Available in a range of sizes including ½ litre spray bottle, 1 litre bottle, 2 litre bottle and 5 litre bottle

Ref:

3-2-1/S + size for 3-2-1 Special

Test Details:

Wira 27908/8/96/A

Tested to BS 5852 Pt1

Passed



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3-2-1 Special Fire Retardant Liquid

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3-2-1 Special comes in a range of sizes including the following:

500ml, 1 litre, 2 litres, 5 litres and 25 litres

Application:

First, spray a small sample of the material to ensure it is colour fast.

Apply a generous coating to all surfaces of the material that you wish to treat ensuring that an even coating is applied. If you can, take a sample piece and test yourself to ensure enough 3-2-1 Special has been applied.

Allow to air dry at room temperature

If 3-2-1 Special gets wet (rain etc...) then a further treatment will be required to ensure complete spread of flame protection.

When applying 3-2-1 Special general PPE should be worn for example Gloves, safety glasses and protective overalls.