

**ENVIROGRAF®**

3-2-1 FIRE RETARDANT LIQUIDS

PRODUCTS 66 & 67 DATA SHEET

IDENTIFICATION AND DESCRIPTION

Intumescent Systems Ltd has developed a range of liquid fire retardant solutions to treat a wide range of inflammable materials that are often the initial items that ignite in major fires. The 3-2-1 range is suitable for many common types of materials, upholstery, bedding, mattresses, curtains, carpets, polyurethane foam, Christmas trees, paper, theatrical materials, etc.

There are three types available:

3-2-1 - For standard covering (must be dry cleaned)

3-2-1 Special - For artificial plants etc.

3-2-1 Washable - For standard coverings which require washing.

ADVANTAGES

- Can prevent the spread of flame on many types of popular materials
- Can help landlords/letting agents/hoteliers etc meet new regulations*
- Environmentally friendly

* For accommodation subject to lettings, this must first be authorised by your local Trading Standards Office.

REQUIREMENTS

STANDARDS AND APPROVALS

The 3-2-1 range has been extensively tested on many types of fabrics. Tested at UKAS-accredited test centres.

COMPATIBILITY

The Envirograf® 3-2-1 range is compatible with many types of materials. A test for colour fastness should be performed before application.

HEALTH & SAFETY

EYE CONTACT: Contact lenses should be removed. Irrigate copiously with clean, fresh water for at least 10 minutes, holding the eyelids apart, seek medical advice. It is advisable to wear gloves when using 3-2-1.

SKIN CONTACT: Wash skin thoroughly with soap and water or use proprietary skin cleaner.

INGESTION: If accidentally swallowed drink plenty of cold water and if necessary seek medical attention.

KEEP AWAY FROM CHILDREN: This product has been tested for Antimony content and was found to be safe. Can be used on children's bedding, clothing, and toys.

TECHNICAL DESCRIPTION

COMPOSITION

Envirograf® 3-2-1 comprises ammonium polyphosphate base and inorganic halide.

PERFORMANCE

FIRE

The 3-2-1 range has been successfully tested on a wide range of fabrics, mattresses, carpets and upholstery according to the relevant British Standards. Successful ageing and wearing tests have been done at the Shirley Institute as well as a variety of washing tests.

Test Reports are available on request.



EXEMPTIONS

100% nylon and polypropylene are not suitable for treatment with 3-2-1.

LIQUID

If the item to be treated requires regular washing, then 3-2-1 Washable should be used. After 6 washes, re-treatment is necessary.

ENVIRONMENTAL/BIOLOGICAL

Envirograf® products are resistant to fungi, insect attack, bacterial action, and are not susceptible to rodents and other vermin.

MAINTENANCE, REPAIR, REPLACEMENT, DISPOSAL

When required the treated material can be simply disposed of - no special conditions of disposal are necessary.

LABOUR

It is advisable that instruction is taken from your nearest Envirograf® regional office for the application of these systems. It is important that the manufacturer's instructions are followed. For licensed premises, let accommodation and hotels application must be carried out by an approved applicator who will give certification on completion.

QUANTITIES AND ORDERING REFERENCES

Supplied in 500ml spray bottles or regular bottles from 1 litre to 5 litres, plus drums of 25 litres. Spray packs of 2½ litres and 3½ litres are also available, including spray bottles.

Order: 3-2-1 (Standard) – 3-2-1/W (Washable) – 3-2-1/S (Special).

QUALITY MANAGEMENT

Intumescent Systems Ltd operates a quality management system according to the relevant British Standards.

REGIONAL OFFICE:

Disclaimer: The 3-2-1 range has been successfully tested on a wide selection of commonly available fabrics, carpets etc. However, it cannot be guaranteed to raise the performance of all materials to the required standard. Additional testing can be carried out if appropriate



**PROTECTING PROPERTY
PROTECTING LIVES**



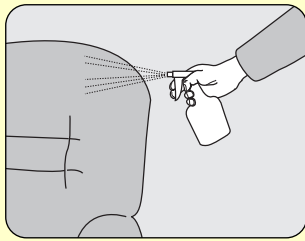
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Intumescent Systems Ltd, Envirograf House, Barfrestone, Dover, Kent, CT15 7JG, United Kingdom

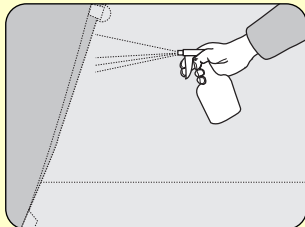
Phone: +44 (0) 1 304 842 555 – Fax: +44 (0) 1 304 842 666 – Email: sales@envirograf.com – URL: www.envirograf.com

APPLICATION FOR 3-2-1 AND 3-2-1 WASHABLE

NB: Before applying to the whole items, spray a small sample of the material where it will not be noticed to ensure colour fastness.



Place the chair or settee on its back and spray all underside materials.

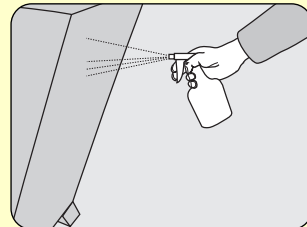


LABOUR

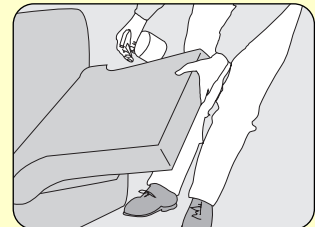
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Furniture

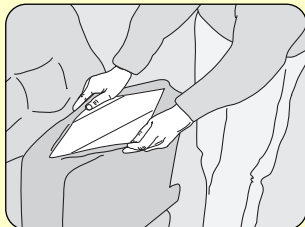
Spray all areas which have foam underneath the material so that the material fully absorbs the 3-2-1/W.



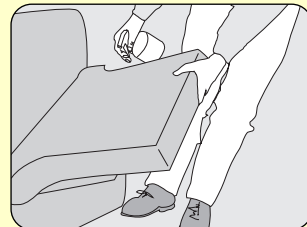
Place the furniture upright, spray the back, front and sides ensuring that the material is wet and has soaked in the 321/W.



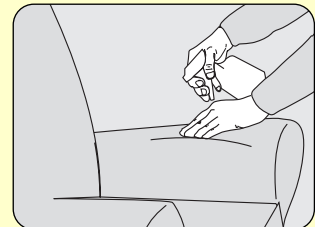
If the seat cushions are removable spray all the material under the seat, ensure that the 321/W is applied down the sides.



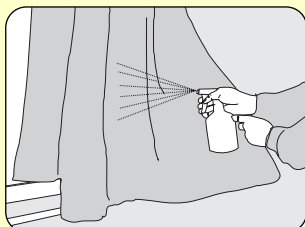
Remove seat cushions from their coverings. If the cushion is not removable spray pressing the liquid into the cushion to ensure absorption.



Spray 321 on all sides of the foam cushion. Ensure that the foam absorbs the liquid by pressing the sponge with your fingers.

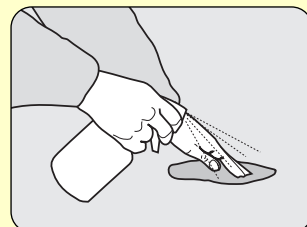


Spray backs, arms and all other areas where foam is underneath material. Ensure that the foam absorbs the liquid by pressing the sponge with your fingers.



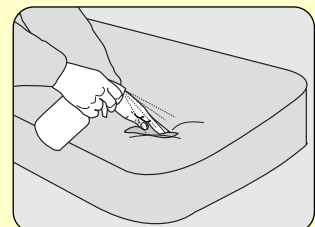
Curtains

For single, non lined curtains spray on one side whilst hanging until the material is moist. Lined curtains spray both sides.



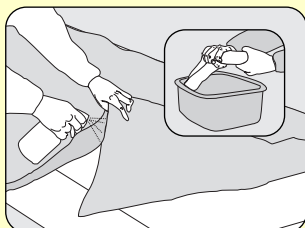
Carpets

Spray the carpet while laid. If the carpet is foam backed use cloth pad to press 321W thoroughly into the carpet ensuring full absorption.



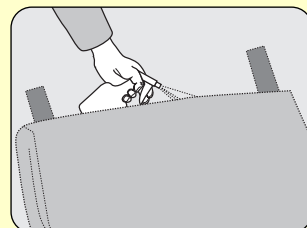
Mattresses

If possible take off the cover. Spray on the 321W pressing the liquid into the foam with a cloth pad, ensuring full absorption. Spray the cover completely until wet. If the cover is not removable then follow the above procedure with the cover on.



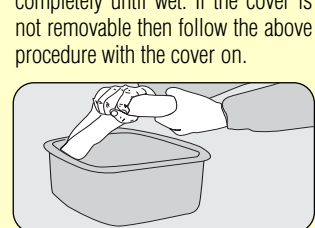
Sheets, Blankets and Covers

These can be sprayed with 3-2-1W and washed 4 times then re-treat either by respraying or dipping in the 3-2-1W. Wring out into a bowl and replace the residue into the bottle.



Leather and Rexine Furniture

To treat the foam tip the chair or settee on its back, take off the under material. Spray and press the liquid into the foam ensuring full absorption.



Kitchen safety

Soak a tea towel in 321 and leave near the cooking area and if necessary use as a fire blanket for pan fires.