

## Safety Data Sheet

### Flametect C

#### SECTION 1: Identification of the substance / mixture and of the company / undertaking

##### 1.1 Product Identifier

**Product Name:** Flametect C  
**Substance / Mixture:** Mixture  
**CAS Registry Number:** n/a

##### 1.2 Relevant identified uses of the substance or mixture and uses advised against

**Identified Uses:** Flame retardant

##### 1.3 Details of the supplier of the safety data sheet

**Company:** Eco-Sol Ltd  
**Address:** Cardiff House Cardiff Rd Barry, United Kingdom  
**Telephone:** +44 (0) 845 293 7770  
**E-mail:** sales@eco-sol.co.uk

##### 1.4 Emergency telephone number

**Emergency Phone:** +44 (0) 1495 240819

#### SECTION 2: Hazards Identification

##### 2.1 Classification of the substance or mixture

###### 2.1.1 Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

The product is not classified according to the CLP regulation.

###### 2.1.3 Additional information

None.

##### 2.2 Label Elements

This product does not need to be labelled in accordance with EC directives.

##### 2.3 Other Hazards

None.

#### SECTION 3: Composition / information on ingredients

##### 3.2 Mixtures

Aqueous mixture of ammonium salts

Component name (CAS)	%	Classification Regulation (EC) No. 1272/2008 [CLP]	Type
Ammonium bromide (235-183-8)	5 – 15	H319, Eye Irrit. 2 See section 16 for full text of the H-phrases	[1]
Diammonium hydrogenorthophosphate (7783-28-0)	15 - 25	Not classed as hazardous	[1]

Type: [1] Constituent, [2] Impurity, [3] Stabilizing additive

## SECTION 4: First Aid Measures

### 4.1 Description of first aid measures

#### **If inhaled**

Move person into fresh air. If not breathing give artificial respiration. If any symptoms persist obtain medical advice.

#### **In case of skin contact**

Wash off with soap and plenty of water.

#### **In case of eye contact**

Flush eyes with water or standard eye wash solution as a precaution.

#### **If swallowed**

Never give anything by mouth to an unconscious person. Rinse mouth with water. If any symptoms persist obtain medical advice.

### 4.2 Most important symptoms and effects, both acute and delayed

To the best of our knowledge, the chemical, physical and toxicological properties have not been thoroughly investigated.

### 4.3 Indication of any immediate medical attention and special treatment needed

Treat according to symptoms.

## SECTION 5: Fire fighting measures

### 5.1 Extinguishing Media

Suitable extinguishing media: water spray, dry powder, foam, or CO<sub>2</sub>.

Unsuitable extinguishing media: none known.

### 5.2 Special hazards arising from the substance or mixture

Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours. If heated the container may burst from increased pressure. High temperatures may liberate ammonia, corrosive and irritating vapours.

### 5.3 Advice for fire fighters

Wear self-contained breathing apparatus for fire fighting if necessary.

## SECTION 6: Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

Avoid contact with skin, eyes and clothing.

Wear personal protective clothing as described in Section 8.

### 6.2 Environmental precautions

Collect and dispose of spillage as indicated in section 13. Dilute with plenty of water.

### 6.3 Methods and material for containment and cleaning up

Ventilate. Dam and absorb spillages with sand, earth or other absorbent material. Collect spillage in containers, seal securely and deliver for disposal according to local regulations. Wash thoroughly after dealing with a spillage.

### 6.4 Reference to other sections

Suitable personal protective clothing is described in Section 8.

Information regarding disposal can be found in Section 13.

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

Avoid contact with skin, eyes and clothing. Keep container tightly sealed. Provide appropriate exhaust ventilation in places where fumes are formed. Do not eat, drink or smoke in work areas. Remove contaminated clothing and protective equipment before entering eating/clean areas.

### 7.2 Conditions for safe storage, including any incompatibilities

Store in sealed containers in a cool, dry, well-ventilated area. Storage at temperatures above 5°C. Protect from direct sunlight.

### 7.3 **Specific end uses** **Flame retardant**

## SECTION 8: Exposure controls / personal protection

### 8.1 **Control parameters** **Occupation exposure limits** No exposure limit value known.

### 8.2 **Exposure controls** **Occupational exposure controls** Provide appropriate exhaust ventilation at machinery and at places where fumes can be generated.

#### **Protective and hygiene measures**

Do not breathe vapour. When using, do not eat, drink or smoke.  
Remove and wash contaminated clothing before re-use.  
Wash hands before breaks and immediately after handling the product. Avoid contact with skin, eyes and clothing.

#### **Personal protective equipment**

##### **Eye / face protection**

If safety assessment deems necessary, use a minimum of safety glasses with side shields (frame goggles) tested and approved under appropriate government standards such as EN 166 (EU) or NIOSH (US).

##### **Skin protection**

Handle with gloves. Suitable chemical resistant gloves should be used. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

##### **Body protection**

Wear appropriate protective clothing to prevent skin exposure.

##### **Respiratory protection**

Suitable face mask must be worn if exposed to vapour or aerosol.

## SECTION 9: Physical and chemical properties

### 9.1 **Information on basic physical and chemical properties** These values are provided as typical values, and should not be considered an absolute specification.

#### **Physical state:**

Colour:

Odour:

Odour threshold:

#### **pH value:**

Melting point / freezing point:

Initial boiling point and boiling range:

Flash point:

Evaporation rate:

Flammability (solid, gas):

Upper / lower flammability or exposure limits:

Vapour pressure:

Vapour density:

Relative density:

#### **Solubility:**

Partition coefficient; n-octanol/water:

Auto-ignition temperature:

Decomposition temperature:

Viscosity:

#### **liquid**

colourless to light yellow

mild

not determined

**~ 8**

not determined

100 °C

not determined

not determined

not determined

not applicable

not determined

not determined

not determined

**fully soluble in water**

not determined

not determined

not determined

not determined

**9.2 Other information**  
No specific data.

**SECTION 10: Stability and reactivity**

- 10.1 Reactivity**  
No decomposition if stored and used as directed. No specific reactivity hazards associated with this product.
- 10.2 Chemical stability**  
The product is stable if stored and handled as indicated.
- 10.3 Possibility of hazardous reactions**  
No hazardous reactions known.
- 10.4 Conditions to avoid**  
None known.
- 10.5 Incompatible materials**  
Acids.
- 10.6 Hazardous decomposition products**  
Thermal decomposition or combustion may liberate ammonia, carbon oxides and other toxic gases/vapours.

**SECTION 11: Toxicological information**

**11.1 Information on toxicological effects**

**Acute toxicity**

Component name	Test	Species	Result
Ammonium bromide	LD50 oral	Rat (male/female)	2714 mg/kg
Diammonium hydrogenorthophosphate	LD50 oral	Rat (male/female)	> 2000 mg/kg

**Skin corrosion / irritation**

Possible irritant with prolonged contact.

**Respiratory or skin sensitisation**

No data available.

**Germ cell mutagenicity**

No data available

**Carcinogenicity**

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

**Reproductive toxicity**

No data available

**Specific target organ toxicity – single exposure**

No data available

**Specific target organ toxicity – repeated exposure**

No data available

**Aspiration hazard**

No data available

**Other information**

No data available

## SECTION 12: Ecological information

### 12.1 Toxicity

Component name	Test	Species	Result
Ammonium bromide	OECD203 (96hr)	Juvenile turbot	NOEC > 440 mg/l
Diammonium hydrogenorthophosphate	OECD203 (96hr)	Rainbow Trout	LC50 > 100mg/l

### 12.2 Persistence and degradability

Readily biodegradable.

### 12.3 Bioaccumulative potential

No data available

### 12.4 Mobility in soil

The product is soluble in water.

### 12.5 Results of PBT and vPvB assessment

PBT/vPvB assessment not available as chemical safety assessment not required / not conducted.

### 12.6 Other adverse effects

No data available

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

#### Product disposal

Disposal must be made according to official regulations. Offer surplus and non-recyclable material to a licensed disposal company. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

#### Packaging

Contaminated packaging that cannot be cleaned should be disposed of in the same manner as the contents.

#### Other information

Do not let the product enter drains.

## SECTION 14: Transport Information

	ADR/RID	IMDG	IATA
<b>14.1 UN number</b>			
<b>14.2 UN proper shipping name</b>	Not hazardous goods	Not hazardous goods	Not hazardous goods
<b>14.3 Transport hazard class(es)</b>			
<b>14.4 Packing group</b>			
<b>14.5 Environmental Hazards</b>			

- 14.6 Special precautions for user**  
No further relevant information available.

## SECTION 15: Regulatory information

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

- 15.1 Safety, health and environmental regulations / legislation for the substance or mixture**

No data available

- 15.2 Chemical safety assessment**  
A chemical safety assessment has not been carried out for this product.

## SECTION 16: Additional information

The above information is believed to be correct but does not purport to be all inclusive, and shall be used only as a guide. ECO-SOL Ltd shall not be held liable for any damage resulting from handling or from contact with the above product.

**Full text of abbreviated H-statements:** H319 Causes serious eye irritation

### Revision history:

04-January-2018 V1.0 Created CLP compliant SDS.

Our Ref: SW/PN/GL

25 February 2014

**Report 232661**

**Page 1 of 2**

Eco-Sol Ltd  
15 Fern Close  
Pen Y Fan Ind Estate  
Newport  
Gwent  
NP11 3EH

Contact: Anthony Allcock

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DATE RECEIVED	:	19 FEBRUARY 2014
FABRIC SUPPLIER	:	100% COTTON TREATED WITH FLAMETECT C FLAME RETARDANT
REPUTED FIBRE CONTENT	:	100% COTTON
FABRIC DESCRIPTION	:	WOVEN
COLOUR/DESIGN	:	AUTUMN LEAF
END USE	:	CURTAINS & DRAPES
ORDER NUMBER	:	VBL ANT
PERFORMANCE STANDARD	:	GENERAL

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REQUEST: BS 5867 - 2:2008 Fabrics for curtains, drapes and window blinds ó Part 2: Flammability requirements - Specification

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COMMENTS: The sample submitted complies with the flammability requirements of BS5867-2:2008 for Type B performance.

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**LABORATORY MANAGER**



**P. NEESAM**  
**HEAD OF FLAMMABILITY**

*This report shall not be reproduced except in full without the written approval of HSTTS. In all circumstances results of tests are implied as referring only to the sample supplied and should not be construed or interpreted on any other basis. The comments given in the report are for guidance only and are not a part of the results. Opinions and interpretations expressed herein are outside the scope of UKAS accreditation.*

Our Ref: SW/PN/GL

25 February 2014

**Report 232661****Page 2 of 2****FIRE TESTS ACCORDING TO BS 5867 - 2:2008****Fabrics for curtains, drapes and window blinds – Part 2: Flammability requirements - Specification****Procedure**

Specimens of Autumn Leaf were subjected to the test method as described in BS EN ISO 15025:2002, procedure 5.1 Surface ignition. The samples were tested in the as received state only, after being conditioned for 24 hours in an atmosphere having a temperature of  $20 \pm 2^{\circ}\text{C}$  and a relative humidity of  $65 \pm 5\%$ .

Pre-treatment: None

**Type B performance requirements**

No part of any hole nor any part of the lowest boundary of any flame shall reach the top edge or either vertical edge of the sample. If any part of any hole or any part of the lowest boundary of any flame, reaches the top edge or either vertical edge, or if there is any separation of any flaming debris droplets in the testing of one specimen, a further six specimens shall be tested. If all six new specimens comply with the above requirements, the fabric shall be deemed to conform to the requirements for type B of the above standard.

**Results**

The following test results relate only to the ignitability of the combination of materials under the particular conditions of test; they are not intended as a means of assessing the full potential fire hazard of the materials in use.

They also only relate to the materials tested. They do not guarantee to represent the performance of production materials.

Original condition	Warp/Length			Weft/Width		
	1	2	3	1	2	3
Flames reached edge?	No	No	No	No	No	No
Hole reached edge?	No	No	No	No	No	No
Flaming debris?	No	No	No	No	No	No

**Comments**

The sample submitted complies with the flammability requirements for Type B performance.



## STATEMENT OF PERFORMANCE. (Non Construction Applications )

**Flametest C. Flame Retardant.** When correctly applied to natural absorbent textiles including some natural / synthetic textile blends, timber & timber derivatives, paper, card, felt , some rubbers & **foams & other similar materials, can render these materials flame retardant up to & including**

- BS 5867 Part 2 Type B. or Part2 2008 ( Curtains & Drapes )
- B.S.476 Parts7 & 6 Classes 1 & 0 BS.EN. 13823 &BS.EN 11925-2 Euroclasses B&C. ( Surface Spread Of Flame & Limited Heat Release)

**FOR INTERIOR USE ONLY, UNSUITABLE FOR PROLONGED SKIN CONTACT i.e ( GARMENTS & UPHOLSTERY )**

**FIX WITH NON- FERROUS OR GALVANISED FERROUS FIXINGS**

**Flametest Nitro Flame Retardant.** When correctly applied to all natural & most synthetic fabrics including polyester, acrylic lycra & other similar materials can render these materials flame retardant up to & including :-

- BS.5867 Part 2 Type B. IMO. A563 ( 14 ) ( Curtains & Drapes )
- BS. 5852 2006. IMO. A652 ( 16 ) ( Upholstery )
- BS. 7175 IMO. A688 ( 17 ) ( Bedspreads & Covers )
- BS. 476 Classes 1 & 0 IMO. A653 (16 ) (Veneers, Textiles, Wallpaper & Other Wall Coverings )
- BS. 4790 IMO A653 (16 ) ( Carpeting )
- BS.7177 IMO. A688 ( 17 ) ( Beds Mattresses & Divans )
- BS. 5665. This Is A Toy Flammability Test , But Deemed An Appropriate Test For Synthetic Flowers & Foliage

For full compliance with *The Furniture & Furnishings (Fire) ( Safety ) Regulations 1988 ( Statutory Instrument 1324 )* & subsequent amendments on natural materials Use **Flametest Nitro D.**

**FOR INTERIOR USE ONLY, NON- CORROSIVE , SKIN FRIENDLY SUITABLE FOR PROLONGED SKIN CONTACT**

**Flametest Nitro D. Flame Retardant. (A Water Resistant Version Of Flametest Nitro )**

In addition to achieving all standards relevant to Flametest Nitro ( above ) will render NATURAL MATERIALS & some NATURAL RICH / SYNTHETIC BLENDS of materials flame retardant up to & including .

- The Furniture & Furnishings ( Fire ) (Safety ) Regulations ( Statutory Instrument 1324 )
- Test methodology BS.5852 in conjunction with the 30 minute water soak test of BS 5651 Ignition Sources 0 ( Cigarette ) , 1 ( Match ) , Flametest Nitro D. Flame Retardant Will render ALL NATURAL, MOST SYNTHETIC & BLENDS OF BOTH MATERIALS flame retardant to :-
- BS. 7837 & test methodology BS. 5438 ( Marquees , Tents Tepees & Yurts ) This Statement Of Performance is a general statement supported by tests & test certificates relating to actual physical tests performed by independent laboratories

**All the above products are certified & approved by Dubai Civil Defence for use in all the United Arab Emirates Certification Number 15389**

Abbreviations		
<b>BS.</b> British Standards.	<b>EN.</b> Euro Norm.	<b>ISO :</b> International Organization for Standardization
<b>IMO.</b> International Maritime Organisation. International Standards Including, MCA- SOLAS. & USCG		<b>UL/ASTM</b> Underwriters Laboratory / American Society For Testing & Materials. ( USA )

### Eco-Sol's Due Diligence

All of Eco-Sol Ltd's ([www.fireproofspray.co.uk](http://www.fireproofspray.co.uk)) independent tests are performed By UKAS accredited laboratories in the UK & by other similarly recognised laboratories internationally. These tests are performed on substrates & composites of substrates, that are considered & deemed to replicate the treated materials actual end use, in many tests worse case scenarios are adopted. These tests & certificates form part of Eco-Sol Ltd's Statement Of Due Diligence & This Statement Of Due Diligence is ( where applicable) extended to our customers & are viewable under "**More Information/ Test Results** " on our website.

### Customers Due Diligence

Users of Eco-Sol products should satisfy themselves that:-

- I. The product & the materials treated with the product are compatible.
- II. The test results that support this statement are both meaningful & relevant to their particular application.
- III. That this Statement Of Performance is acceptable to any inspecting authorities

Site Specific & Vessel Specific Statements Of Performance Are Only Available By Request Prior To Purchase & On Provision Of Full Proposed Contract Data . Eco-Sol Ltd would advise customers to retain a sample of each treated component to demonstrate & verify its performance if requested

Signed \_\_\_\_\_ Technical Authority

Example Only