

# SAFETY DATA SHEET EVO-STIK FIRE RETARDANT FOAM

According to Regulation (EC) No 1907/2006

#### SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

#### 1.1. Product identifier

Product name EVO-STIK FIRE RETARDANT FOAM

Product No. 132658

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

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

Supplier BOSTIK LIMITED

COMMON ROAD STAFFORD STAFFORDSHIRE ST16 3EH +44 1785 272625 sds.uk@bostik.com

## 1.4. Emergency telephone number

+44 1785 272650 (24 Hours)

#### **SECTION 2: HAZARDS IDENTIFICATION**

## 2.1. Classification of the substance or mixture

Classification (EC 1272/2008)

Physical and Chemical Hazards Flam. Aerosol 1 - H222

Human health Acute Tox. 4 - H332;Skin Irrit. 2 - H315;Eye Irrit. 2 - H319;Resp. Sens. 1 -

H334;Skin Sens. 1 - H317;Carc. 2 - H351;Lact. - H362;STOT SE 3 -

H335;STOT RE 2 - H373

Environment Aquatic Chronic 4 - H413

Classification (1999/45/EEC) Xn;R20, R48/20. Carc. Cat. 3;R40. R42/43. Xi;R36/37/38. F+;R12. R53, R64.

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

## 2.2. Label elements

Contains DIPHENYLMETHANE-4,4'-DI-ISOCYANATE

Label In Accordance With (EC) No. 1272/2008



Signal Word Danger

Hazard Statements

H222 Extremely flammable aerosol.
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.
H332 Harmful if inhaled.
H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H335 May cause respiratory irritation.

H351 Suspected of causing cancer. H362 May cause harm to breast-fed children. H373 May cause damage to organs through prolonged or repeated exposure. H413 May cause long lasting harmful effects to aquatic life. **Precautionary Statements** P102 Keep out of reach of children. P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking. P211 Do not spray on an open flame or other ignition source. P251 Pressurized container: Do not pierce or burn, even after use. P271 Use only outdoors or in a well-ventilated area. P280 Wear protective gloves/protective clothing/eve protection/face protection. P260 Do not breathe vapour/spray. P302+352 IF ON SKIN: Wash with plenty of soap and water. P304+340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. P305+351+338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P410+412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122°F. Supplementary Precautionary Statements P101 If medical advice is needed, have product container or label at hand. P103 Read label before use. P263 Avoid contact during pregnancy/while nursing. P273 Avoid release to the environment. P405 Store locked up. P501 Dispose of contents/container in accordance with local regulations. Supplemental label information EUH204 Contains isocyanates. May produce an allergic reaction. Pressurized container: protect from sunlight and do not expose to Α1 temperatures exceeding 50°C. Do not pierce or burn, even after use.

# 2.3. Other hazards

Pressurised container. Protect from sunlight and do not expose to temperatures exceeding 50C. Do not pierce or burn even after use. Do not spray on a naked flame or any incandescent material - NO SMOKING.

Do not spray on a naked flame or any incandescent material.

Keep away from sources of ignition - No smoking.

## **SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**

A2

А3

## 3.2. Mixtures

Flam. Gas 1 - H220

.z. Mixtures			
ALKANES, C14-17, CHLORO			5-10%
CAS-No.: 85535-85-9	EC No.: 287-477-0		
Classification (EC 1272/2008) EUH066 Lact H362		Classification (67/548/EEC) R64 R66	
Aquatic Acute 1 - H400 Aquatic Chronic 1 - H410		N;R50/53	
DIMETHYL ETHER			5-10%
CAS-No.: 115-10-6	EC No.: 204-065-8		
Classification (EC 1272/2008)		Classification (67/548/EEC)	

F+;R12

DIPHENYLMETHANE-4,4'-DI-ISOCYANATE 30-60%

CAS-No.: 101-68-8 EC No.: 202-966-0 Registration Number: 01-2119457014-47

Classification (EC 1272/2008)

Acute Tox. 4 - H332 Skin Irrit. 2 - H315 Eye Irrit. 2 - H319 Resp. Sens. 1 - H334 Skin Sens. 1 - H317 Carc. 2 - H351

STOT SE 3 - H335 STOT RE 2 - H373 Classification (67/548/EEC)

Carc. Cat. 3;R40 Xn;R20,R48/20 Xi;R36/37/38 R42/43

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

### **SECTION 4: FIRST AID MEASURES**

#### 4.1. Description of first aid measures

Inhalation

Remove victim immediately from source of exposure. Move the exposed person to fresh air at once. Get medical attention if any discomfort continues.

Ingestion

Get medical attention if any discomfort continues.

Skin contact

Promptly wash contaminated skin with soap or mild detergent and water. Promptly remove clothing if soaked through and wash as above.

Get medical attention if irritation persists after washing.

Eye contact

Rinse the eye with water immediately. Continue to rinse for at least 15 minutes and get medical attention.

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

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

## **SECTION 5: FIREFIGHTING MEASURES**

### 5.1. Extinguishing media

Extinguishing media

Use: Foam, carbon dioxide or dry powder.

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

Specific hazards

Fire or high temperatures create: Toxic gases/vapours/fumes of: Carbon dioxide (CO2). Carbon monoxide (CO).

## 5.3. Advice for firefighters

Protective equipment for fire-fighters

Wear self contained breathing apparatus

### **SECTION 6: ACCIDENTAL RELEASE MEASURES**

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

Avoid skin and eye contact. Ensure adequate ventilation. Wear personal protective equipment. Wear self contained breathing apparatus. Avoid breathing vapour

#### 6.2. Environmental precautions

Do not discharge into drains, water courses or onto the ground.

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

#### Revision 3

## **EVO-STIK FIRE RETARDANT FOAM**

Extinguish all ignition sources. Avoid sparks, flames, heat and smoking. Ventilate. Clean-up personnel should use respiratory and/or liquid contact protection. Absorb onto sand, earth or abosorbent granules. Pick up with non-sparking tools and place into metal containers with sealable lids. Mark containers with details of hazards and store in designated area ready for disposal. Collect spillage in containers, seal securely and deliver for disposal according to local regulations.

### 6.4. Reference to other sections

Wear protective clothing as described in Section 8 of this safety data sheet.

### **SECTION 7: HANDLING AND STORAGE**

### 7.1. Precautions for safe handling

Keep away from heat, sparks and open flame. Avoid spilling, skin and eye contact. Ventilate well, avoid breathing vapours. Use approved respirator if air contamination is above accepted level.

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

Flammable/combustible - Keep away from oxidisers, heat and flames. Keep upright. Aerosol cans: Must not be exposed to direct sunlight or temperatures above 50°C. Pressurised container: Must not be exposed to temperatures above 50°C. Storage Class

Compressed gas storage.

### 7.3. Specific end use(s)

The identified uses for this product are detailed in Section 1.2.

#### **SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

#### 8.1. Control parameters

Name	STD	TWA - 8 Hrs		STEL - 15 Min		Notes
DIMETHYL ETHER	WEL	400 ppm	766 mg/m3	500 ppm	958 mg/m3	
DIPHENYLMETHANE-4,4'-DI-ISOCYANATE	WEL		0.02 mg/m3(Sen)		0.07 mg/m3(Sen)	

WEL = Workplace Exposure Limit.

Ingredient Comments

WEL = Workplace Exposure Limits

### 8.2. Exposure controls

Protective equipment







## Engineering measures

Provide adequate general and local exhaust ventilation. Explosion-proof general and local exhaust ventilation.

Respiratory equipment

If ventilation is insufficient, suitable respiratory protection must be provided. Wear suitable respiratory protection. Wear full face mask supplied with: Wear mask supplied with: Chemical respirator with organic vapour cartridge.

Hand protection

Protective gloves and goggles must be used if there is a risk of direct contact or splash.

Eye protection

Wear splash-proof eye goggles to prevent any possibility of eye contact.

Hygiene measures

Wash hands at the end of each work shift and before eating, smoking and using the toilet. Use appropriate skin cream to prevent drying of skin. When using do not eat, drink or smoke. DO NOT SMOKE IN WORK AREA!

## **SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

#### 9.1. Information on basic physical and chemical properties

Appearance Aerosol.

Colour Varying.

Odour Characteristic.

Relative density 0.967

Flash point (°C) N/A (Aerosol)

Auto Ignition Temperature (°C) 235

## 9.2. Other information

## **SECTION 10: STABILITY AND REACTIVITY**

## 10.1. Reactivity

## 10.2. Chemical stability

Stable under normal temperature conditions.

## 10.3. Possibility of hazardous reactions

Not available.

Hazardous Polymerisation

Unknown.

## 10.4. Conditions to avoid

Not known.

## 10.5. Incompatible materials

## 10.6. Hazardous decomposition products

Carbon monoxide (CO). Carbon dioxide (CO2).

## **SECTION 11: TOXICOLOGICAL INFORMATION**

## 11.1. Information on toxicological effects

Inhalation

Harmful by inhalation. May cause sensitisation by inhalation. Harmful: danger of serious damage to health by prolonged exposure through inhalation.

Ingestion

No specific health warnings noted.

Skin contact

Irritating to skin. May cause sensitisation by skin contact.

Eye contact

Irritating to eyes.

Route of entry

Skin and/or eye contact. Inhalation.

Specific effects

Contains a substance/a group of substances which may cause harm to breastfed babies.

## **SECTION 12: ECOLOGICAL INFORMATION**

**Ecotoxicity** 

Not regarded as dangerous for the environment. However, contamination of the aquatic or terrestrial environments should be avoided

### 12.1. Toxicity

No data available

### 12.2. Persistence and degradability

Degradability

There are no data on the degradability of this product.

## 12.3. Bioaccumulative potential

Bioaccumulative potential

No data available on bioaccumulation.

### 12.4. Mobility in soil

### 12.5. Results of PBT and vPvB assessment

No data available

## 12.6. Other adverse effects

Not available.

### **SECTION 13: DISPOSAL CONSIDERATIONS**

### 13.1. Waste treatment methods

Dispose of waste and residues in accordance with local authority requirements.

#### **SECTION 14: TRANSPORT INFORMATION**

### 14.1. UN number

UN No. (ADR/RID/ADN) 1950 UN No. (IMDG) 1950 UN No. (ICAO) 1950

## 14.2. UN proper shipping name

Proper Shipping Name AEROSOLS

## 14.3. Transport hazard class(es)

ADR/RID/ADN Class 2.1

ADR/RID/ADN Class Class 2: Gases

ADR Label No. 2.1

IMDG Class 2.1

ICAO Class/Division 2.1

Transport Labels



## 14.4. Packing group

Not applicable.

## 14.5. Environmental hazards

Environmentally Hazardous Substance/Marine Pollutant No.

## 14.6. Special precautions for user

EMS F-D, S-U

Tunnel Restriction Code (D)

### 14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

### **SECTION 15: REGULATORY INFORMATION**

#### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

#### Uk Regulatory References

Persons already sensitised to diisocyanates may develop allergic reactions when using this product. Persons suffering from asthma, eczema or skin problems should avoid contact, including dermal contact, with this product. This product should not be used under conditions of poor ventilation unless a protective mask with an appropriate gas filter (i.e. type A1 according to standard EN14387) is used. Statutory Instruments

The Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 (S.I 2009 No. 716). Control of Substances Hazardous to Health.

Approved Code Of Practice

Classification and Labelling of Substances and Preparations Dangerous for Supply. Safety Data Sheets for Substances and Preparations. Guidance Notes

Workplace Exposure Limits EH40. Introduction to Local Exhaust Ventilation HS(G)37. CHIP for everyone HSG(108).

**EU** Legislation

Dangerous Preparations Directive 1999/45/EC. Dangerous Substance Directive 67/548/EEC. Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, including amendments.

#### 15.2. Chemical Safety Assessment

#### **SECTION 16: OTHER INFORMATION**

### General information

This product should be used as directed by Bostik Ltd. For further information consult the product data sheet or contact Technical Services. Information Sources

This safety data sheet was compiled using current safety information supplied by distributor of raw materials.

**Revision Comments** 

NOTE: Lines within the margin indicate significant changes from the previous revision. This safety data sheet supersedes all previous issues and users are cautioned to ensure that it is current. Destroy all previous data sheets and if in doubt contact Bostik Limited.

Issued By Approved BA
Revision Date September 2014

Revision 3

Date June 2010

Risk Phrases In Full

R12 Extremely flammable.
R20 Harmful by inhalation.

R48/20 Harmful: danger of serious damage to health by prolonged exposure through inhalation.

R36/37/38 Irritating to eyes, respiratory system and skin.
R40 Limited evidence of a carcinogenic effect.
R64 May cause harm to breastfed babies.

R53 May cause long-term adverse effects in the aquatic environment.

R42/43 May cause sensitisation by inhalation and skin contact.

R66 Repeated exposure may cause skin dryness or cracking.

R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Hazard Statements In Full

EUH066 Repeated exposure may cause skin dryness or cracking.

H220 Extremely flammable gas.
H222 Extremely flammable aerosol.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.H319 Causes serious eye irritation.

H332 Harmful if inhaled.

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

H335 May cause respiratory irritation.
H351 Suspected of causing cancer.

H362 May cause harm to breast-fed children.

H373 May cause damage to organs << Organs>> through prolonged or repeated exposure.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.
 H413 May cause long lasting harmful effects to aquatic life.