

**EVO-STIK FIRE RETARDANT FOAM**  
 Supersedes Date: 14-Dec-2017

 Revision date 21-Aug-2019  
 Revision Number 1.01

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

### 1.1. Product Identifier

**Product Name** EVO-STIK FIRE RETARDANT FOAM  
**Pure substance/mixture** Mixture

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

**Recommended use** Building and construction work.  
**Uses advised against** Consumer use

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

<b>Company Name</b>	<b>Supplier</b>
Bostik Espana par Compositor	Bostik Limited
Stravinsky, 12-18	Common Rd
Poligone Industrial Can Jordi	ST16 3EH
08191 Rubi (Barcelona), Spain	Stafford UK
Tel: +34 93 586 02 00	Tel: +44 (1785) 27 26 25
Fax: +34 93 586 02 01	Fax: +44 (1785) 25 72 36

**E-mail address** SDS.box-EU@bostik.com

### 1.4. Emergency telephone number

**United Kingdom** +44 (1785) 272650  
**Ireland** +353 (1) 8624900 (Monday- Friday 9am-5pm)

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

Regulation (EC) No 1272/2008

<b>Acute toxicity - Inhalation (Dusts/Mists)</b>	Category 4 - (H332)
<b>Skin corrosion/irritation</b>	Category 2 - (H315)
<b>Serious eye damage/eye irritation</b>	Category 2 - (H319)
<b>Respiratory sensitisation</b>	Category 1 - (H334)
<b>Skin sensitisation</b>	Category 1 - (H317)
<b>Carcinogenicity</b>	Category 2 - (H351)
<b>Specific target organ toxicity (single exposure)</b>	Category 3 - (H335)
<b>Specific target organ toxicity — repeated exposure</b>	Category 2 - (H373)
<b>Aerosols</b>	Category 1 - (H222, H229)

### 2.2. Label Elements

Contains: Isocyanic acid, polymethylenepolyphenylene ester



# SAFETY DATA SHEET

EVO-STIK FIRE RETARDANT FOAM  
Supersedes Date: 14-Dec-2017

Revision date 21-Aug-2019  
Revision Number 1.01

## Signal word

DANGER

## Hazard statements

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  
H373 - May cause damage to organs through prolonged or repeated exposure  
H222 - Extremely flammable aerosol  
H229 - Pressurised container: May burst if heated

## Precautionary statements

P101 - If medical advice is needed, have product container or label at hand  
P102 - Keep out of reach of children  
P201 - Obtain special instructions before use  
P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking  
P211 - Do not spray on an open flame or other ignition source  
P251 - Do not pierce or burn, even after use  
P260 - Do not breathe mist/vapours/spray  
P271 - Use only outdoors or in a well-ventilated area  
P280 - Wear protective gloves and eye/face protection  
P302 + P352 - IF ON SKIN: Wash with plenty of water and soap  
P310 - Immediately call a POISON CENTER or doctor  
P410 + P412 - Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F  
P501 - Dispose of contents/ container to an approved waste disposal plant

## Additional information

Placed on the market in aerosol containers or in containers fitted with a sealed spray attachment.

Reserved for industrial and professional use.

## 2.3. Other Hazards

In case of insufficient ventilation and/or through use, the formation of a explosive/highly flammable mixture is possible

## PBT and vPvB assessment

This preparation contains no substance considered to be persistent, bio-accumulating nor toxic (PBT)

## SECTION 3: Composition/information on ingredients

### 3.1 Substances

Not applicable

### Mixtures

Chemical name	EC No.	CAS No.	Weight-%	Classification according to Regulation (EC) No. 1272/2008 [CLP]	Specific concentration limit (SCL)	REACH Registration Number
Isocyanic acid, polymethylenepolyphenylene ester	618-498-9	9016-87-9	40 - <80	STOT SE 3 (H335) STOT RE 2 (H373)	STOT SE 3 :: C>=5% Skin Irrit. 2 :: C>=5% Eye Irrit. 2 :: C>=5% Resp. Sens. 1 ::	Exempt(P)

# SAFETY DATA SHEET

**EVO-STIK FIRE RETARDANT FOAM**  
**Supersedes Date:** 14-Dec-2017

**Revision date** 21-Aug-2019  
**Revision Number** 1.01

				Skin Irrit. 2 (H315) Eye Irrit. 2 (H319) Resp. Sens. 1 (H334) Skin Sens. 1 (H317) Carc. 2 (H351) Acute Tox. 4 (H332)	C>=0.1%	
Reaction mass of tris(2-chloropropyl) phosphate and tris(2-chloro-1-methylethyl) phosphate and Phosphoric acid, bis(2-chloro-1-methylethyl) 2-chloropropyl ester and Phosphoric acid, 2-chloro-1-methylethyl bis(2-chloropropyl) ester	911-815-4	--	10 - <20	Acute Tox. 4 (H302)		01-2119486772-26-xxxx
Dimethyl ether	204-065-8	115-10-6	5 - <10	Flam. Gas 1 (H220) Press. Gas		01-2119472128-37-XXXX

**Full text of H- and EUH-phrases: see section 16**

Note: ^ indicates not classified, however, the substance is listed in section 3 as it has an OEL

This product does not contain candidate substances of very high concern at a concentration >=0.1% (Regulation (EC) No. 1907/2006 (REACH), Article 59)

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

<b>General advice</b>	Show this safety data sheet to the doctor in attendance. IF exposed or concerned: Get medical advice/attention.
<b>Inhalation</b>	Remove to fresh air. May cause allergic respiratory reaction. If breathing has stopped, give artificial respiration. Get medical attention immediately. Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation. Get immediate medical advice/attention.
<b>Eye contact</b>	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Keep eye wide open while rinsing. Do not rub affected area. Get medical attention if irritation develops and persists. Consult an ophthalmologist.
<b>Skin contact</b>	May cause an allergic skin reaction. In the case of skin irritation or allergic reactions see a doctor. Wash off immediately with soap and plenty of water for at least 15 minutes.
<b>Ingestion</b>	May produce an allergic reaction. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Get immediate medical advice/attention. Clean mouth with water. Drink 1 or 2 glasses of water.
<b>Self-protection of the first aider</b>	Remove all sources of ignition. Ensure that medical personnel are aware of the

# SAFETY DATA SHEET

EVO-STIK FIRE RETARDANT FOAM  
Supersedes Date: 14-Dec-2017

Revision date 21-Aug-2019  
Revision Number 1.01

material(s) involved, take precautions to protect themselves and prevent spread of contamination. Avoid contact with skin, eyes or clothing. Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation. Use personal protective equipment as required. See section 8 for more information. Avoid breathing vapours or mists.

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

**Symptoms** May cause allergy or asthma symptoms or breathing difficulties if inhaled. Coughing and/or wheezing. Itching. Rashes. Hives. Burning sensation. Difficulty in breathing.

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

**Note to doctors** May cause sensitisation in susceptible persons. Treat symptomatically.

## **SECTION 5: Firefighting measures**

### 5.1. Extinguishing media

**Suitable extinguishing media** Dry chemical. Carbon dioxide (CO<sub>2</sub>). Water spray.

**Unsuitable extinguishing media** DO NOT EXTINGUISH A LEAKING GAS FIRE UNLESS LEAK CAN BE STOPPED.

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

**Specific hazards arising from the chemical** Risk of ignition. Keep product and empty container away from heat and sources of ignition. In the event of fire, cool tanks with water spray. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. Cylinders may rupture under extreme heat. Damaged cylinders should be handled only by specialists. Containers may explode when heated. Product is or contains a sensitizer. May cause sensitisation by inhalation and skin contact. May cause sensitisation by skin contact.

**Hazardous combustion products** Carbon monoxide. Nitrogen oxides (NO<sub>x</sub>). Hydrogen chloride. Hydrogen cyanide.

### 5.3. Advice for firefighters

**Special protective equipment for fire-fighters** Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.

## **SECTION 6: Accidental release measures**

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

**Personal precautions** Evacuate personnel to safe areas. Use personal protective equipment as required. See section 8 for more information. Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Keep people away from and upwind of spill/leak. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Take precautionary measures against static discharges. Avoid breathing dust/fume/gas/mist/vapours/spray. Avoid breathing vapours or mists.

**Other information** Ventilate the area. Refer to protective measures listed in Sections 7 and 8.

**For emergency responders** Use personal protection recommended in Section 8.

### 6.2. Environmental precautions

**Environmental precautions** Refer to protective measures listed in Sections 7 and 8. Prevent further leakage or

# SAFETY DATA SHEET

EVO-STIK FIRE RETARDANT FOAM  
Supersedes Date: 14-Dec-2017

Revision date 21-Aug-2019  
Revision Number 1.01

spillage if safe to do so. Prevent product from entering drains.

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

**Methods for containment** Keep out of drains, sewers, ditches and waterways. Stop leak if you can do it without risk. A vapour suppressing foam may be used to reduce vapours. Dyke far ahead of spill to collect run-off water. Flood with water to complete polymerization and scrape off floor.

**Methods for cleaning up** Take precautionary measures against static discharges. Dam up. Soak up with inert absorbent material. Pick up and transfer to properly labelled containers.

## 6.4. Reference to other sections

**Reference to other sections** See section 8 for more information. See section 13 for more information.

## **SECTION 7: Handling and storage**

### 7.1. Precautions for safe handling

**Advice on safe handling** Use personal protection equipment. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not spray on an open flame or other ignition source. Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapours). Use spark-proof tools and explosion-proof equipment. Handle product only in closed system or provide appropriate exhaust ventilation. Keep in an area equipped with sprinklers. Do not puncture or incinerate cans. Contents under pressure. In case of rupture. Avoid contact with skin and eyes. Avoid breathing vapours or mists. Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Provide extract ventilation to points where emissions occur. In case of insufficient ventilation, wear suitable respiratory equipment. Do not eat, drink or smoke when using this product. Remove contaminated clothing and shoes. Take off contaminated clothing and wash it before reuse.

**General hygiene considerations** Do not eat, drink or smoke when using this product. Contaminated work clothing should not be allowed out of the workplace. Regular cleaning of equipment, work area and clothing is recommended. Wash hands before breaks and immediately after handling the product. Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection. Remove and wash contaminated clothing and gloves, including the inside, before re-use.

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

**Storage Conditions** Protect from sunlight. Keep away from heat, sparks, flame and other sources of ignition (i.e., pilot lights, electric motors and static electricity). Keep in properly labelled containers. Do not store near combustible materials. Keep in an area equipped with sprinklers. Store in accordance with the particular national regulations. Store in accordance with local regulations. Store in a cool, dry area away from potential sources of heat, open flames, sunlight or other chemicals. Store locked up. Keep out of the reach of children. Keep from freezing.

### 7.3. Specific end use(s)

**Specific Use(s)**  
Building and construction work.

**Risk Management Methods (RMM)** The information required is contained in this Safety Data Sheet.

**Other information** Observe technical data sheet.

# SAFETY DATA SHEET

EVO-STIK FIRE RETARDANT FOAM  
Supercedes Date: 14-Dec-2017

Revision date 21-Aug-2019  
Revision Number 1.01

## SECTION 8: Exposure controls/Personal protection

### 8.1. Control parameters

#### Exposure Limits

Chemical name	European Union	Ireland	United Kingdom
Isocyanic acid, polymethylenepolyphenylene ester 9016-87-9	-	-	TWA: 0.02 mg/m <sup>3</sup> STEL: 0.07 mg/m <sup>3</sup> SEN; as -NCO
Dimethyl ether 115-10-6	TWA: 1000 ppm TWA: 1920 mg/m <sup>3</sup>	TWA: 1000 ppm TWA: 1920 mg/m <sup>3</sup> STEL: 3000 ppm STEL: 5760 mg/m <sup>3</sup>	TWA: 400 ppm TWA: 766 mg/m <sup>3</sup> STEL: 500 ppm STEL: 958 mg/m <sup>3</sup>
Isobutane 75-28-5	-	TWA: 1000 ppm (8hr) STEL: 1000 ppm	-
Propane 74-98-6	-	STEL: 3000 ppm	-
Diethylene glycol 111-46-6	-	TWA: 23 ppm TWA: 100 mg/m <sup>3</sup> STEL: 69 ppm STEL: 300 mg/m <sup>3</sup>	TWA: 23 ppm TWA: 101 mg/m <sup>3</sup> STEL: 69 ppm STEL: 303 mg/m <sup>3</sup>

Derived No Effect Level (DNEL) No information available

Derived No Effect Level (DNEL)	
Dimethyl ether (115-10-6)	
Type	worker Long term Systemic health effects
Exposure route	Inhalation
Derived No Effect Level (DNEL)	1894 mg/m <sup>3</sup>

Derived No Effect Level (DNEL)	
Dimethyl ether (115-10-6)	
Type	Consumer Long term Systemic health effects
Exposure route	Inhalation
Derived No Effect Level (DNEL)	471 mg/m <sup>3</sup>

Predicted No Effect Concentration (PNEC) No information available.

Predicted No Effect Concentration (PNEC)	
Dimethyl ether (115-10-6)	
Environmental compartment	Predicted No Effect Concentration (PNEC)
Freshwater	0.155 mg/l
Marine water	0.016 mg/l
Microorganisms in sewage treatment	160 mg/l
Freshwater sediment	0.681 mg/kg dry weight
Soil	0.45 mg/kg dry weight

### 8.2. Exposure controls

**Engineering controls** Ensure adequate ventilation, especially in confined areas.

#### Personal Protective Equipment

**Eye/face protection**

Tight sealing safety goggles. Face protection shield.

**Hand protection**

Ensure that the breakthrough time of the glove material is not exceeded. Refer to glove supplier for information on breakthrough time for specific gloves.

**Skin and body protection**

Antistatic footwear. Wear fire/flame resistant/retardant clothing. Gloves made of plastic or rubber. Suitable protective clothing. Apron.

# SAFETY DATA SHEET

EVO-STIK FIRE RETARDANT FOAM  
Supersedes Date: 14-Dec-2017

Revision date 21-Aug-2019  
Revision Number 1.01

**Respiratory protection** Provide adequate ventilation. In case of inadequate ventilation wear respiratory protection.

**Environmental exposure controls** Do not allow into any sewer, on the ground or into any body of water.

## SECTION 9: Physical and chemical properties

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

Physical state	Aerosol
Appearance	Foam
Colour	No information available
Odour	Characteristic
Odour threshold	No information available

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
pH	No data available	
Melting point / freezing point	No data available	
Boiling point / boiling range	No data available	
Flash point	No data available	
Evaporation rate	No data available	
Flammability (solid, gas)	No data available	
Flammability Limit in Air		
Upper flammability or explosive limits	16	
Lower flammability or explosive limits	3	
Vapour pressure	600	kPa @ 23 °C
Vapour density	No data available	
Relative density	No data available	
Water solubility	Immiscible in water	
Solubility(ies)	No data available	
Partition coefficient	No data available	
Autoignition temperature	235 °C	
Decomposition temperature	No data available	
Kinematic viscosity	No data available	
Dynamic viscosity	No data available	
Explosive properties	No data available	
Oxidising properties	No data available	

### 9.2. Other information

Solid content (%)	No information available	
Softening Point	No information available	
Molecular weight	No information available	
VOC Content (%)	155.2 g/L / 14.8 %	European directive n°2010/75/UE
Density	1.05 g/cm <sup>3</sup>	
Bulk density	No information available	

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

**Reactivity** No information available.

### 10.2. Chemical stability

**Stability** Stable under normal conditions.

### Explosion Data

**Sensitivity to mechanical** None.

# SAFETY DATA SHEET

EVO-STIK FIRE RETARDANT FOAM  
Supercedes Date: 14-Dec-2017

Revision date 21-Aug-2019  
Revision Number 1.01

impact  
Sensitivity to static discharge Yes.

## 10.3. Possibility of hazardous reactions

Possibility of hazardous reactions None under normal processing.

## 10.4. Conditions to avoid

Conditions to avoid Heat, flames and sparks. Excessive heat. Keep from freezing.

## 10.5. Incompatible materials

Incompatible materials Strong acids. Strong bases. Strong oxidising agents.

## 10.6. Hazardous decomposition products

Hazardous decomposition products Hydrogen cyanide. Hydrogen chloride. Carbon monoxide. Carbon dioxide (CO<sub>2</sub>). Nitrogen oxides (NO<sub>x</sub>).

## **SECTION 11: Toxicological information**

### 11.1. Information on toxicological effects

#### Information on likely routes of exposure

#### Product Information

<b>Inhalation</b>	Intentional misuse by deliberately concentrating and inhaling contents may be harmful or fatal. Specific test data for the substance or mixture is not available. May cause sensitisation in susceptible persons. (based on components). May cause irritation of respiratory tract. Harmful by inhalation.
<b>Eye contact</b>	Irritating to eyes. Causes serious eye irritation.
<b>Skin contact</b>	Specific test data for the substance or mixture is not available. Repeated or prolonged skin contact may cause allergic reactions with susceptible persons. (based on components). May cause sensitisation by skin contact. Causes skin irritation.
<b>Ingestion</b>	Specific test data for the substance or mixture is not available. May cause additional affects as listed under "Inhalation". Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhoea.

#### Symptoms related to the physical, chemical and toxicological characteristics

**Symptoms** Symptoms of allergic reaction may include rash, itching, swelling, trouble breathing, tingling of the hands and feet, dizziness, lightheadedness, chest pain, muscle pain, or flushing. Coughing and/ or wheezing. Itching. Rashes. Hives. Redness. May cause redness and tearing of the eyes.

#### Numerical measures of toxicity

#### Acute Toxicity

The following values are calculated based on chapter 3.1 of the GHS document

ATEmix (oral)	2,669.70 mg/kg
ATEmix (inhalation-dust/mist)	2.55 mg/l

#### Component Information



# SAFETY DATA SHEET

**EVO-STIK FIRE RETARDANT FOAM**  
**Supersedes Date:** 14-Dec-2017

**Revision date** 21-Aug-2019  
**Revision Number** 1.01

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Isocyanic acid, polymethylenepolyphenylene ester 9016-87-9	LD50 > 10000 mg/kg (Rattus)	LD 50 > 9400 mg/kg (Oryctolagus cuniculus)	=1.5 mg/L (Rattus) 4 h
Reaction mass of tris(2-chloropropyl) phosphate and tris(2-chloro-1-methylethyl) phosphate and Phosphoric acid, bis(2-chloro-1-methylethyl) 2-chloropropyl ester and Phosphoric acid, 2-chloro-1-methylethyl bis(2-chloropropyl) ester --	LD50 > 500 mg/kg (males); LD50 = 632 mg/kg (females)(Rattus)	LD50 > 2000 mg/kg	
Dimethyl ether 115-10-6			=164000 ppm (Rattus) 4 h

**Delayed and immediate effects as well as chronic effects from short and long-term exposure**

**Skin corrosion/irritation** Classification based on data available for ingredients. Causes skin irritation.

Component Information					
Isocyanic acid, polymethylenepolyphenylene ester (9016-87-9)					
Method	Species	Exposure route	Effective dose	Exposure time	Results
OECD Test No. 404: Acute Dermal Irritation/Corrosion	Rabbit				Mild skin irritant

**Serious eye damage/eye irritation** Causes serious eye irritation.

**Respiratory or skin sensitisation** May cause sensitisation by inhalation. May cause sensitisation by skin contact.

Component Information			
Isocyanic acid, polymethylenepolyphenylene ester (9016-87-9)			
Method	Species	Exposure route	Results
OECD Test No. 406: Skin Sensitisation	Guinea pig		No sensitisation responses were observed
OECD Test No. 429: Skin Sensitisation: Local Lymph Node Assay	Mouse		sensitising

**Germ cell mutagenicity** Based on available data, the classification criteria are not met.

**Carcinogenicity** Classification based on data available for ingredients. Contains a known or suspected carcinogen.

Component Information		
Isocyanic acid, polymethylenepolyphenylene ester (9016-87-9)		
Method	Species	Results
OECD Test No. 453: Combined Chronic Toxicity/Carcinogenicity Studies	Rat	Carcinogenic

**Reproductive toxicity** Based on available data, the classification criteria are not met.

# SAFETY DATA SHEET

EVO-STIK FIRE RETARDANT FOAM  
 Supersedes Date: 14-Dec-2017

Revision date 21-Aug-2019  
 Revision Number 1.01

**STOT - single exposure** May cause respiratory irritation.

**STOT - repeated exposure** May cause damage to organs through prolonged or repeated exposure.

**Aspiration hazard** Based on available data, the classification criteria are not met.

## SECTION 12: Ecological information

### 12.1. Toxicity

#### Ecotoxicity

Chemical name	Algae/aquatic plants	Fish	Toxicity to Micro-organisms	Crustacea	M-Factor
Isocyanic acid, polymethylenepolyphenylene ester 9016-87-9	ErC50 (72h) >1640 mg/L Algae (scenedesmus subspicatus) (OECD 201)	CL50 (96h) >1000 mg/L (Danio rerio)	-	EC50 (24H) >1000 mg/L Daphnia magna	-
Reaction mass of tris(2-chloropropyl) phosphate and tris(2-chloro-1-methylethyl) phosphate and Phosphoric acid, bis(2-chloro-1-methylethyl) 2-chloropropyl ester and Phosphoric acid, 2-chloro-1-methylethyl bis(2-chloropropyl) ester --	EC50 (72h) = 82 mg/L (Pseudokirchneriella subcapitata) OECD 201	LC50 (96h) = 56.2 mg/L (Pimephales promelas) Static	-	LC50 (48h) = 131 mg/L Daphnia magna	-
Dimethyl ether 115-10-6	-	LC50: >4.1g/L (96h, Poecilia reticulata)	-	-	-

### 12.2. Persistence and degradability

**Persistence and degradability** No information available.

#### Component Information

##### Isocyanic acid, polymethylenepolyphenylene ester (9016-87-9)

Method	Exposure time	Value	Results
OECD Test No. 302C: Inherent Biodegradability: Modified MITI Test (II)	28 days	0% biodegradation	Not readily biodegradable

### 12.3. Bioaccumulative potential

**Bioaccumulation** There is no data for this product.

#### Component Information

Chemical name	Partition coefficient	Bioconcentration factor (BCF)
Isocyanic acid,	-	200

# SAFETY DATA SHEET

EVO-STIK FIRE RETARDANT FOAM  
Supersedes Date: 14-Dec-2017

Revision date 21-Aug-2019  
Revision Number 1.01

polymethylenepolyphenylene ester 9016-87-9		
Reaction mass of tris(2-chloropropyl) phosphate and tris(2-chloro-1-methylethyl) phosphate and Phosphoric acid, bis(2-chloro-1-methylethyl) 2-chloropropyl ester and Phosphoric acid, 2-chloro-1-methylethyl bis(2-chloropropyl) ester --	2.68	-
Dimethyl ether 115-10-6	-0.18	-

## 12.4. Mobility in soil

**Mobility in soil** No information available.

## 12.5. Results of PBT and vPvB assessment

**PBT and vPvB assessment** This preparation contains no substance considered to be persistent, bio-accumulating nor toxic (PBT).

Chemical name	PBT and vPvB assessment
Dimethyl ether 115-10-6	The substance is not PBT / vPvB

## 12.6. Other adverse effects

**Other adverse effects** No information available.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

**Waste from residues/unused products** Should not be released into the environment. Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.

**Contaminated packaging** Empty containers pose a potential fire and explosion hazard. Do not cut, puncture or weld containers.

**Waste codes / waste designations according to EWC / AVV** 16 05 05 gases in pressure containers other than those mentioned in 16 05 04. Waste codes should be assigned by the user based on the application for which the product was used.

**European Waste Catalogue** 08 05 01\* waste isocyanates 16 05 04\* gases in pressure containers (including halons) containing dangerous substances

**Other information** Waste codes should be assigned by the user based on the application for which the product was used.

## SECTION 14: Transport information

**Note:** Keep from freezing.

### Land transport (ADR/RID)

**14.1 UN Number** UN1950

**14.2 Proper Shipping Name** Aerosols

# SAFETY DATA SHEET

EVO-STIK FIRE RETARDANT FOAM  
Supersedes Date: 14-Dec-2017

Revision date 21-Aug-2019  
Revision Number 1.01

<b>14.3 Transport hazard class(es)</b>	2
Labels	2.2
<b>14.4 Packing Group</b>	Not regulated
Description	UN1950, Aerosols, 2, (E)
<b>14.5 Environmental hazards</b>	Not applicable
<b>14.6 Special Provisions</b>	327, 625, 344, 190
Classification Code	5A
Tunnel restriction code	(E)
Limited Quantity (LQ)	1 L

## IMDG

<b>14.1 UN number</b>	UN1950
<b>14.2 Proper Shipping Name</b>	Aerosols
<b>14.3 Transport hazard class(es)</b>	2.1
<b>14.4 Packing group</b>	Not regulated
Description	UN1950, Aerosols, 2.1
<b>14.5 Marine Pollutant</b>	Np
<b>14.6 Special Provisions</b>	63,190, 277, 327, 344, 381, 959
Limited Quantity (LQ)	See SP277
EmS-No.	F-D, S-U
<b>14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code</b>	No information available

## Air transport (ICAO-TI / IATA-DGR)

<b>14.1 UN number</b>	UN1950
<b>14.2 Proper Shipping Name</b>	Aerosols, flammable
<b>14.3 Transport hazard class(es)</b>	2.1
<b>14.4 Packing group</b>	Not regulated
Description	UN1950, Aerosols, flammable, 2.1
<b>14.5 Environmental hazards</b>	Not applicable
<b>14.6 Special Provisions</b>	A145, A167, A802
Limited Quantity (LQ)	30 kg G
ERG Code	10L

## **Section 15: REGULATORY INFORMATION**

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

#### European Union

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work

Check whether measures in accordance with Directive 94/33/EC for the protection of young people at work must be taken.

Take note of Directive 92/85/EC on the protection of pregnant and breastfeeding women at work

#### Registration, Evaluation, Authorization, and Restriction of Chemicals (REACH) Regulation (EC 1907/2006)

##### **SVHC: Substances of Very High Concern for Authorisation:**

This product does not contain candidate substances of very high concern at a concentration  $\geq 0.1\%$  (Regulation (EC) No. 1907/2006 (REACH), Article 59)

##### **EU-REACH (1907/2006) - Annex XVII - Substances subject to Restriction**

This product does not contain substances subject to restriction (Regulation (EC) No. 1907/2006 (REACH), Annex XVII).

##### **Substance subject to authorisation per REACH Annex XIV**

This product does not contain substances subject to authorisation (Regulation (EC) No. 1907/2006 (REACH), Annex XIV)

# SAFETY DATA SHEET

**EVO-STIK FIRE RETARDANT FOAM**  
Supercedes Date: 14-Dec-2017

Revision date 21-Aug-2019  
Revision Number 1.01

**Dangerous substance category per Seveso Directive (2012/18/EU)**

P3a - FLAMMABLE AEROSOLS  
P3b - FLAMMABLE AEROSOLS

**Ozone-depleting substances (ODS) regulation (EC) 1005/2009**  
Not applicable

**Persistent Organic Pollutants**  
Not applicable

## 15.2. Chemical safety assessment

No information available

## **SECTION 16: Other information**

### Key or legend to abbreviations and acronyms used in the safety data sheet

#### Full text of H-Statements referred to under section 3

H220 - Extremely flammable gas  
H302 - Harmful if swallowed  
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  
H373 - May cause damage to organs through prolonged or repeated exposure

#### **Legend**

SVHC: Substances of Very High Concern for Authorisation:

#### **Legend** SECTION 8: Exposure controls/personal protection

TWA	TWA (time-weighted average)	STEL	STEL (Short Term Exposure Limit)
Ceiling	Maximum limit value	*	Skin designation
PBT	Persistent, Bioaccumulative, and Toxic (PBT) Chemicals		
STOT RE	Specific target organ toxicity - Repeated exposure		
STOT SE	Specific target organ toxicity - Single exposure		
EWC:	European Waste Catalogue		

#### **Key literature references and sources for data**

No information available

**Prepared By** Product Safety & Regulatory Affairs

**Revision date** 21-Aug-2019

#### Indication of changes

**Revision note** SDS sections updated: 1.

**Training Advice** No information available

**Further information** No information available

# SAFETY DATA SHEET

**EVO-STIK FIRE RETARDANT FOAM**  
**Supersedes Date:** 14-Dec-2017

**Revision date** 21-Aug-2019  
**Revision Number** 1.01

---

**This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006**

## **Disclaimer**

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

**End of Safety Data Sheet**