

# Safety Data Sheet

## Blue 60 Fire Frame Foam

Issue 1 - May 2017



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

### 1.1 Product identifier

**Product Name** : BLUE 60 FOAM

**Product Code** : AFBLUE60/GG

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

**Use of substance / mixture** : Adhesive foam.

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

**Company Name** : Astroflame (Fireseals) LTD

Unit 8 , I.O Centre  
Stephenson Road  
Segensworth  
Fareham  
PO15 5RU  
United Kingdom

**Tel Number** : (0) 44 1329 844500

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**Email** : sales@astroflame.com

### 1.4. Emergency telephone number

## Section 2: Classification of the substance or mixture

### 2.1. Classification of the substance or mixture

Xn Harmful

F + Highly flammable

The product has to be labeled due to the calculation procedure of the “General Classification guideline for preparations of the EU” in the latest valid version.

Warning! Pressurized container. R 12 Highly flammable.

R 20 Harmful by inhalation.

R22 Harmful if swallowed.

R 36/37/38 Irritating to eyes, respiratory system and skin.

R 42/43 May cause sensitization by inhalation and skin contact.

Contains isocyanates. See information chapter 15.

## 2.2. Label elements

Labelling according to Regulation (EC) No 1272/2008 [CLP/GHS]  
SIGNAL WORD Danger

### 2.2.1. Hazard Statements

H315-Causes skin irritation.  
H317-May cause an allergic skin reaction.  
H319-Causes serious eye irritation.  
H334-May cause allergy or asthma symptoms or breathing difficulties if inhaled.  
H335-May cause respiratory irritation.  
H372-Causes damage to organs through prolonged or exposure respiratory system

### 2.2.2. Precautionary Statements

#### 2.2.2.1. Prevention

P102-Keep out of reach of children.  
P202-Do not handle until all safety precautions have been read and understood.  
P260-Do not breathe.  
P271-Use only outdoors or in a well-ventilated area.  
P270-Do not eat, drink or smoke when using this product.  
P272-Contaminated work clothing should not be allowed out of the workplace.  
P264-Wash hands thoroughly after handling.  
P284-Wear respiratory protection.  
P280-Wear protective gloves/eye protection/face protection.

#### 2.2.2.2. Response

P304+P340-IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.  
P310-Immediately call a POISON CENTER or doctor/physician.  
P305+P351+P338-IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P337+P313-If eye irritation persists: Get medical advice/attention.  
P302+P352-IF ON SKIN: Gently wash with plenty of soap and water.  
P333+P313-If skin irritation or rash occurs: Get medical advice/attention.  
P363-Wash contaminated clothing before reuse.  
P308+P313-IF exposed or concerned: Get medical advice/attention.

#### 2.2.2.3. Disposal

P501-Dispose of contents/container through a waste management company authorized by the local government.

#### 2.2.2.4. Storage

P403+P233-Store in a well-ventilated place. Keep container tightly closed.  
P405-Store locked up.

### 2.3. Other Hazards

#### 2.3.1. Physical Hazards

Flammable liquids Category 2  
 H223-Flammable material

#### 2.3.2. Health Hazards

Acute toxicity (Inhalation) Category 2  
 Skin corrosion/irritation Category 2  
 Serious eye damage/eye irritation Category 2  
 Respiratory sensitization Category 1  
 Skin sensitization Category 1  
 Specific target organ toxicity

#### 2.3.3. Environmental Hazards

Not applicable.

### 2.4. Information Concerning Particular Hazards for Human and Environment

The product has to be labeled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.

### 2.5. Additional Informations

Please look over section 11 for toxicological information. Full text of H- and EUH- phrases: See section 16.

## Section 3: Composition/information on ingredients

### 3.2. Mixtures

Description: Mixture of substances listed below with nonhazardous additions

Ingredients	CAS NO	EC NO.	CONC. %	Classification (24092 T.C)	Classification (EC) No 1272/2008 (CLP/GHS)
Diphenylmethane Diisocyanate isomeres homologues	9016-87-9	----	25-35%	Xn; R20-36/37/38-42/43	H315, H317, H319, H332, H334 H335, H373, H351
Butane	106-97-8	203-448-7	2.5-10%	F+; R12	H220
Dimethyl ether	115-10-6	200-662-2	2.5-10%	F+; R12	H220
Propane	74-98-6	200-827-9	2.5-10%	F+; R12	H220
Phosphorous based (Flame retardant)	13674-84-5	237-158-7	5-30%	Xn; R22	H302

## Section 4: First aid measures

### 4.1. Description of first aid measures

General Advice: The following first aid recommendations are based on an assumption that appropriate personal and industrial hygiene practices are followed

### 4.2 After inhalation

Remove person to fresh air. If signs/symptoms persist, get medical attention.

### 4.3 After skin contact

Immediately wash with water and soap and rinse thoroughly.

### 4.4 After eye contact

Flush eyes with large amounts of water. Get medical attention.

### 4.5 After swallowing

Do not induce vomiting. Give victim two

## Section 5: Fire-Fighting measures

### 5.1 Protective equipment

Mount respiratory protective device and wear protective equipment.

### 5.2 Suitable extinguishing agents

CO<sub>2</sub>, sand, extinguishing powder. Do not use water.

### 5.3 For safety reasons unsuitable extinguishing agents

Water with full jet.

## Section 6: Accidental Release Measures

### 6.1 Person-related safety precautions

Wear protective equipment. Keep unprotected persons away.

## 6.2 Measures for environmental protection

Do not allow to enter sewers/ surface or ground water.

## 6.3 Measures for cleaning/collecting

Dispose contaminated material as waste according to item 13. Ensure adequate ventilation. Do not flush with water or aqueous cleansing agents.

# Section 7: Handling and Storage

## 7.1 Handling

### 7.1.1 Information for safe handling

Ensure good ventilation/exhaustion at the workplace.

### 7.1.2 Information about fire - and explosion protection

Keep ignition sources away - Do not smoke. Protect against electrostatic Do not pierce or burn, even after use. Do not spray onto a naked flame or any incandescent material. Keep away from sources of heat

## 7.2 Storage

### 7.2.1 Requirements to be met by storerooms and receptacles

Store in a cool location. Observe official regulations on storing packaging with pressurized containers.

### 7.2.2 Information about storage in one common storage facility

Not required.

### 7.2.3 Further information about storage conditions

Keep container tightly sealed.  
Store in cool, dry conditions in well-sealed receptacles.

## Section 8: Exposure controls/personal protection

### 8.1. Control Parameters

106-97-8 butane

OES : Short-term value: 1810 mg/m<sup>3</sup>, 750 ppm Long-term value: 1450 mg/m<sup>3</sup>, 600 ppm

74-98-6 propane

OES : Asphyxiate

115-10-6 dimethyl ether

OES : Short-term value: 958 mg/m<sup>3</sup>, 500 ppm Long-term value: 766 mg/m<sup>3</sup>, 400 ppm IOELV

9016-87-9 diphenylmethanediisocyanate, isomers and homologues

MEL : Short-term value: 0.07 mg/m<sup>3</sup> Long-term value: 0.02 mg/m<sup>3</sup>

### 8.2 Personal protective equipment

#### 8.2.1 General protective and hygienic measures

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing.

Wash hands before breaks and at the end of work.

Avoid contact with the eyes and skin.

#### 8.2.2 Respiratory protection

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

#### 8.2.3 Protection of hands

The glove material has to be impermeable and resistant to the product / substance

Protective gloves

Material of gloves

Nitrile rubber, NBR Recommended thickness of the material:  $\geq 0.4$  mm Butyl rubber, BR Recommended thickness of the material:  $\geq 0.7$  mm ·

Penetration time of glove material

For the mixture of chemicals mentioned below the penetration time has to be at least 480 minutes (Permeation according to EN 374 Part 3: Level 6).

## 9: Information on basic physical and chemical properties

### 9.1 General information

Form : Aerosol

Odour : Characteristic

## 9.2 Important health, safety and environmental information

Boiling Range : Not applicable, as aerosol

Flash Point : Not applicable, as aerosol

Self-igniting : Product is not self-igniting.

pH :Not Applicable

Specific Gravity: 22 ± 3 Kg/ cm<sup>3</sup>

Vapour pressure: 5 Bar/+20° C

Melting point :No Data Available

Danger of explosion: Product is not explosive. However, formation of explosive air/vapor mixtures is possible. Solubility in / Miscibility with water : Not miscible or difficult to mix.VOC: 19%

## Section 10: Stability and reactivity

### 10.1. Reactivity

No data available

### 10.2. Chemical Stability

The product is chemically stable under normal usage conditions.

### 10.3. Possibility of Hazardous Reactions

No hazardous reactions known.

### 10.4. Conditions to Avoid

Heat, flames and sparks.

### 10.5. Incompatible Materials

Strong oxidizing agents, acids, amines, bases.

### 10.6. Hazardous Decomposition Products

Carbon dioxide, carbon monoxide, oxides of nitrogen, smoke.

## Section 11: Toxicological information

### 11.1 Toxicity



#### 11.1.1 Primary irritant effect

No data available

#### 11.1.2 On the skin

Irritant to skin and mucous membranes.

#### 11.1.3 On the eye

No data available

#### 11.1.4 Sensitization

Sensitization possible through inhalation. Sensitization possible through skin contact.

Chemical Name LD50 Oral LD50 Dermal LC50 Inhalation

Methylene bisphenyl 9200 mg/kg ( Rat )

isocyanate (MDI)

Propane 658 mg/kg ( Rat )

Dimethyl ether

308 g/ m<sup>3</sup> ( Rat ) 4 h

## Section 12: Ecological information

### 12.1. Toxicity

### 12.2 General notes

Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water Do not allow product to reach ground water, water course or sewage system, even in small quantities.

Effect on the ozone layer: Not dangerous for the ozone layer(1999/45/EC).

Greenhouse effect: No data available.

Effect on waste water purification : No data available

### 12.3. Bioaccumulative Potential

No data available

### 12.4. Mobility in Soil

No data available.

#### 12.5. Results of PBT and vPvB Assessment

No data available

#### 12.6. Other Adverse Effects

No data available.

### Section 13: Disposal considerations

#### 13.1. Waste Treatment Methods

Product: Dispose of in accordance with local regulations. Waste codes should be assigned by the user, preferably in discussion with the waste disposal authorities.

Contaminated packaging: Dispose of as unused product. Empty containers should be taken to an approved waste handling site for recycling or disposal.

### Section 14: Transport information

#### 14.1. UN Number

ADR/RID: 1950

IMDG: 1950

IATA: 1950

#### 14.2. Proper UN Shipping Name

ADR/RID : AEROSOLS, FLAMMABLE

IMDG : AEROSOLS, FLAMMABLE

IATA : AEROSOLS, FLAMMABLE

#### 14.3. Transport Hazard Class(es)

ADR/RID: 2.1

IMDG: 2.1

IATA: 2.1

#### 14.4. Packing Group

Not applicable.

#### 14.5. Environmental Hazard

No

#### 14.6. Special Precautions for User

IMDG-EmS Number : F-D, S-U

#### 14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable.

### Section 15: Regulatory information

#### 15.1. Safety, Health and Environmental Regulations Specific for the Preparations

Regulation (EC) No 1907/2006, (REACH)

Regulation (EC) No 1272/2008, (CLP)

Aerosol Dispensers Directive 75/324/EEC , (ADD)

ADR-European Agreement Concerning the International Carriage of Dangerous Goods by Road

### Section 16: Other information

#### 16.1. Indication of Changes to the Previous Version

Date Prepared: 02.12.2014

Revision Date: 16.04.2015

Revision No: 2.5

#### 16.2. Abbreviations and Acronyms

CLP: Classification, labelling and packaging.

GHS: Globally harmonized system of classification and labelling of chemicals.

ADR: European agreement concerning the Int. carriage of dangerous goods by road.

IATA: International air transport association.

ICAO: International civil aviation organization.

IMDG: International maritime code for dangerous goods.

PBT: Persistent, bioaccumulative and toxic according to 1907/2006/EC, Annex XIII.

vPvB: Very persistent and very bioaccumulative according to 1907/2006/EC, Annex XIII.

OEL: Occupational exposure limit.

CAS No: Chemical abstract service index number.

EC50: Half maximal effective concentration

LC50: Median lethal concentration.  
LD50: Median lethal dose.  
H220: Extremely flammable gas.  
H222: Extremely flammable aerosol.  
H229: Pressurized container: may burst if heated.  
H280: Contains gas under pressure; may explode if heated.  
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.  
EUH204: Contains isocyanates. May produce an allergic reaction.

#### 16.3. Special Information of Certain Preparations

Contains Diphenylmethanediisocyanate Isomers Homologues  
Contains isocyanates. Harmful by inhalation. Irritating to eyes, respiratory system and skin. May cause sensitization by inhalation

#### 16.4. Further Information

All information and instructions provided in this Safety Data Sheet (SDS) are based on the current state of scientific and technical Data  
Department issuing SDS: Product safety department.  
Contact: Product safety.