

## H45FRB – Fire Retardant Polyethylene

### 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

#### 1.1. Product Name/Identifier

H45FRB – Fire Retardant Polyethylene. Chemically Cross-linked Polyethylene/EVA Foam

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

Foam is used for installation in roofing and cladding as eaves or ridge filler for sealing through compression against wind, dusts, insects and driving rain..

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

Premier Sealant Systems Ltd.  
Mercia Way,  
Foxhills Industrial Park,  
Scunthorpe,  
North Lincolnshire,  
DN15 8RE  
Tel. 01724 864 100

#### 1.4. Emergency telephone number

NPIS (National Poisons Information Service): 0344 892 0111 (for medical professionals only). For medical advice, members of the public should contact NHS 111 in England: 111; NHS 24 in Scotland: 111; NHS Direct in Wales: 111 or 0845 4647. In Northern Ireland: contact your local GP or pharmacist. In Europe call 112.

### 2. HAZARDS IDENTIFICATION

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

##### Classification according to UK CLP/GHS

Not classified

#### 2.2. Label elements

##### Hazard pictograms

Not applicable.

**Signal word**

Not applicable.

**Hazard statements**

Not applicable.

**Precautionary statements**

Not applicable.

**Supplemental label information**

Not applicable.

**2.3. Other hazards**

Not applicable.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

**3.1. Substances**

Not applicable.

**3.2. Mixtures**

Product type - Chemically Cross-linked Polyethylene & EVA Foam

An article is defined as an “object which during production is given a special shape, surface or design which determines its function to a greater degree than does its chemical composition” (REACH art. 3 No. 3). H45FRB foam is an article, and therefore an MSDS is not required. (REACH article 31). H45FRB foam do not contain an SVHC candidate list substance, or other substance listed under REACH article 57, in concentration of 0.1% (w/w) or above.

## 4. FIRST AID MEASURES

**4.1. Description of first aid measures****General information**

In all cases of doubt, or if symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person.

**Inhalation:**

Move victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.

**Ingestion:**

Do not induce vomiting or give water to drink. Seek medical attention.

**Skin contact:**

There is no risk.

**Eye contact:**

Rinse with water, in case of uncomfortable sensation, consult a doctor or ophthalmologist.

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

<b>Skin contact:</b>	None known
<b>Eye contact:</b>	Dusts might cause irritation.
<b>Ingestion:</b>	No data available.
<b>Inhalation:</b>	Dusts might cause irritation.

### Notes for the doctor

Not applicable.

### Specific treatments

Treat symptomatically.

## 5. FIREFIGHTING MEASURES

### 5.1. Extinguishing media

#### Suitable extinguishing media

Use extinguishing media appropriate the surrounding fire conditions. Use as appropriate: water spray, dry extinguishing media, foam and carbon dioxide.

#### Unsuitable extinguishing media

DO NOT to use full jet water as an extinguishing agent.

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

#### Specific hazards

During a fire it is advisable to cool the material with water. Material that was not ignited should, if possible, be removed from the vicinity of the fire to a safe area. Care must be taken not to stand underneath burning material, dripping of burning molten material may occur. Smoke may contain toxic substances; it is therefore advisable to wear a mask. Even after the flames have been extinguished, the material should be cooled with water, in order to prevent a renewed outbreak of the fire due to self ignition.

#### Hazardous combustion products

Hazardous gasses that may be generated: Carbon dioxide, carbon monoxide, hydro bromic acid, nitrogen monoxide, nitrogen dioxide.

### 5.3. Advice for firefighters

No specific recommendations.

#### Special protective equipment for firefighters

Wear self-contained breathing apparatus. Avoid spillage of the products used to extinguish the fire into an aqueous medium.

## 6. ACCIDENTAL RELEASE MEASURES

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

#### Personal precautions

If dust or vapor condition is above the recommended level, use local extraction apparatus (likely only in the case of a fire).

### 6.2. Environmental precautions

This product is not classified as hazardous to the environment. Keep product away from drains, surface and ground water.

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

Can be cleaned by any acceptable method: Dust and fragments may be vacuumed, swept or blown away by use of air pressure.

## 7. HANDLING AND STORAGE

### 7.1. Precautions for safe handling

#### Usage precautions

Comply with the current legislation concerning the prevention of industrial risks.

#### Advice on general occupational hygiene

Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash their hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas.

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

#### Storage precautions

Storage: Keep in a cool, dry, well-ventilated area. Avoid sources of heat, radiation, static electricity and contact with food.

#### Storage class

Not classified.

### 7.3. Specific end use(s)

Field of application of the product is described in Technical data sheet (TDS).

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1. Control parameters

#### Occupational exposure limits

No data available.

### 8.2. Exposure controls

#### Appropriate engineering controls

Ensure adequate ventilation, especially in confined areas.

#### Eye/face protection

Use safety glasses (with side shields).

#### Hand protection

Gloves not needed, however follow workplace instructions.

#### Other skin and body protection

Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. Cotton or cotton/synthetic overalls are normally suitable. Grossly contaminated clothing should be removed and the skin washed with soap and water or a recognised skin cleaner. ALWAYS WASH YOUR HANDS BEFORE EATING, SMOKING OR USING THE TOILET.

#### Hygiene measures

Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

#### Respiratory protection

If dust or vapor condition is above the recommended level, use local extraction apparatus (likely only in the case of a fire).

#### Environmental exposure controls

Do not let into environment.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

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

Appearance	Solid foam
Colour	off white
Odour	None
Odour threshold	No data available
pH	Not applicable
Melting point	Not determined
Initial boiling point and range	Not determined
Flash point	Not determined

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Evaporation rate	No information available
Evaporation factor	No information available
Flammability (solid, gas)	No information available
Upper/lower flammability or explosive limits	No information available
Vapour pressure	No information available
Vapour density	No information available
Relative density	25-200kg/m <sup>3</sup>
Bulk density	Not available
Solubility(ies)	Insoluble in water
Partition coefficient	Not available
Auto-ignition temperature	No data available
Decomposition Temperature	>300°C
Viscosity	No information available
Explosive properties	Not applicable
Oxidising properties	Not applicable
VOC	Not applicable
LEED (2009) VOC	Not applicable

## 9.2. Other information

Not available.

## 10. STABILITY AND REACTIVITY

### 10.1. Reactivity

The mixture is not reactive under recommended storage and handling conditions (see Section 7).

### 10.2. Chemical stability

The mixture is stable under recommended storage and handling conditions (see Section 7).

### 10.3. Possibility of hazardous reactions

In case of fire, the product can create hazard gases.

### 10.4. Conditions to avoid

Temperatures over 150°C.

### 10.5. Incompatible materials

No data available.

### 10.6. Hazardous decomposition products

In case of fire: carbon oxides, hydrocarbons, trace ammonia, smoke particles.

## 11. TOXICOLOGICAL INFORMATION

### 11.1. Information on toxicological effects

#### Acute toxicity

None known.

#### Skin Corrosion/Irritation

None known.

#### Serious Eye Damage/Irritation

None known.

#### Respiratory or Skin Sensitisation

None known.

#### Germ Cell Mutagenicity

None known.

#### Carcinogenicity

None known.

#### Reproductive Toxicity

None known.

#### Specific target organ toxicity (single exposure)

Lack of data.

#### Specific target organ toxicity (repeated exposure)

Lack of data.

## 12. ECOLOGICAL INFORMATION

### 12.1. Toxicity

None known.

### 12.2. Persistence and degradability

None known.

### 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

PE is regarded as biologically inert.

## 13. DISPOSAL CONSIDERATIONS

### 13.1. Waste treatment methods

The waste can be buried at an appropriate site or burned in a furnace. The foam can also be ground down/fed for the production of recycled foams.

### Disposal methods

Dispose of in accordance with local regulations. The waste can be buried at an appropriate site or burned in a furnace. The foam can also be ground down/fed for the production of recycled foams.

### 13.2. Waste class

Not applicable.

## 14. TRANSPORT INFORMATION

### 14.1. UN number

Not applicable

### 14.2. Packing group

Not applicable.

### 14.3. Road ADR

Not applicable.

### 14.4. Railway RID

Not applicable.

### 14.5. Transport by sea GGVSee/IMDG-Code

Not applicable.



## 14.6. Air Transport ICAO-TI/IATA-DGR

Not applicable.

## 15. REGULATORY INFORMATION

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

Annex XIV - List of substances subject to authorisation

None of the components are listed.

Substances of very high concern

None of the components are listed.

Ozone depleting substances

Not listed.

Prior Informed Consent (PIC)

Not listed.

Persistent Organic Pollutants

Not listed.

Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles

Not applicable.

Seveso Directive

This product is not controlled under the Seveso Directive.

### EU regulations

Industrial emissions (integrated pollution prevention and control) - Air

Not listed.

Industrial emissions (integrated pollution prevention and control) - Water

Not listed.

International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

Montreal Protocol

Not listed.

Stockholm Convention on Persistent Organic Pollutants

Not listed.

Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed.

Inventory list Australia

Not determined.

Canada

Not determined

China

Not determined.

Eurasian Economic Union

Russian Federation inventory

Not determined.

Japan inventory (CSCL)

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Not determined.  
Japan inventory (ISHL)  
Not determined  
New Zealand  
Not determined.  
Philippines  
Not determined.  
Republic of Korea  
Not determined.  
Taiwan  
Not determined.  
Thailand  
Not determined.  
Turkey  
Not determined.  
United States  
Not determined.  
Viet Nam  
Not determined.

## 15.2. Chemical safety assessment

Not determined.

## 16. OTHER INFORMATION

### Abbreviations and acronyms used in the safety data sheet

ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways.

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.

ATE: Acute Toxicity Estimate.

BCF: Bioconcentration Factor.

CAS: Chemical Abstracts Service.

cATpE: Converted acute toxicity point estimate.

DNEL: Derived No Effect Level.

EC<sub>50</sub>: 50% of maximal Effective Concentration.

GHS: Globally Harmonized System.

IATA: International Air Transport Association.

IBC: International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk (International Bulk Chemical Code).

ICAO: Technical Instructions for the Safe Transport of Dangerous Goods by Air.

IMDG: International Maritime Dangerous Goods.

LC50: Lethal Concentration to 50 % of a test population.

LD50: Lethal Dose to 50% of a test population (Median Lethal Dose).

LOAEC: Lowest Observed Adverse Effect Concentration.

LOAEL: Lowest Observed Adverse Effect Level.

LOEC: Lowest Observed Effect Concentration.

MARPOL 73/78: International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978.

NOAEC: No Observed Adverse Effect Concentration.

NOAEL: No Observed Adverse Effect Level.  
NOEC: No Observed Effect Concentration.  
PBT: Persistent, Bioaccumulative and Toxic substance.  
PNEC: Predicted No Effect Concentration.  
REACH: The REACH etc. (Amendment etc.) (EU Exit) Regulations 2020 No. 1577.  
RID: European Agreement concerning the International Carriage of Dangerous Goods by Rail.  
SVHC: Substances of Very High Concern.  
vPvB: Very Persistent and Very Bioaccumulative.

## Classification abbreviations and acronyms

Acute Tox. = Acute toxicity  
Aquatic Chronic = Hazardous to the aquatic environment (chronic)  
Asp. Tox. = Aspiration hazard  
Eye Dam. = Serious eye damage  
Flam. Liq. = Flammable liquid  
Repr. = Reproductive toxicity  
Skin Irrit. = Skin irritation  
Skin Sens. = Skin sensitisation  
STOT RE = Specific target organ toxicity-repeated exposure  
STOT SE = Specific target organ toxicity-single exposure

## Key literature references and sources for data

Source: European Chemicals Agency, <http://echa.europa.eu/> SDS from supplier.

## Classification procedures according to SI 2019 No. 720

Flam. Liq. 2 - H225: On basis of test data.  
Aquatic Chronic 3 - H412,  
Eye Irrit. 2 - H319,  
Repr. 2 - H361d,  
Skin Irrit. 2 - H315,  
STOT SE 3 - H336,  
STOT RE 2 - H373: Calculation method.

## Revision comments

Revision date  
25/03/2024  
Revision  
2  
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SDS status  
Approved.

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