

# PRODUCT SAFETY DATA SHEET

According to article 31 and Annex II of the EU REACH Regulation



## HODGSON FIRE FOAM

Version No: 4

Revision Date: 11/07/2012

Page 1 of 1

### 1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND THE COMPANY

Trade Name	Hodgson Fire Foam.
Use of the substance / preparation	Aerosol canister containing foam forming components for gap filling.
Manufacturer / Supplier	Hodgson Sealants Limited Belprin Road Beverley East Yorkshire HU17 0LN
Service	Tel: + 44 (0)1482 868321 Fax: + 44 (0)1482 679337 E-mail: <a href="mailto:SDS@hodgsonsealants.com">SDS@hodgsonsealants.com</a>
Emergency phone number (UK office hours only: 9am to 5pm)	Tel: + 44 (0)1482 868321

### 2. HAZARDS IDENTIFICATION

Liquid/uncured foam may cause acute irritation and sensitisation of the respiratory system leading to an asthmatic condition, wheeziness and tightness of the chest. Sensitised individuals may subsequently show asthmatic symptoms when exposed to very low atmospheric concentrations. Repeated or prolonged skin contact may cause removal of natural fat from the skin resulting in non-allergic contact dermatitis, absorption through the skin and, eventually, allergic contact dermatitis. Irritating to eyes, respiratory system and skin.

After curing, the product is low hazard. When heated, container can burst. When the temperature is rising the pressure within the canister increases.

### 3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical characterisation	Polyurethane foam based on a polyurethane prepolymer.
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#### Hazardous ingredients:

Name	CAS No.	EC No.	Conc. (%w/w)	Classification & R phrases	
Mixture of n-butane and propane	106-97-8 / 74-98-6	203-448-7 / 200-827-9	1-15	F+	R12
Diphenylmethane diisocyanate, isomers & homologues	9016-87-9	202-966-0	30-45	Xn, Xi	R20, 36/37/38, 42/43
Dimethylether	115-10-6	-	1-15	F+	R12
1, 1, 1, 2 - Tetrafluorethan	811-97-2	212-377-0	1-15	-	-

# PRODUCT SAFETY DATA SHEET

According to article 31 and Annex II of the EU REACH Regulation



## HODGSON FIRE FOAM

Version No: 4

Revision Date: 11/07/2012

Page 2 of 2

### 4. FIRST AID MEASURES

Eye contact	Flush with plenty of water. Seek medical advice if irritation persists.
Skin contact	Wipe off and wash with soap and water. Remove contaminated clothing. Seek medical advice if irritation persists.
Inhalation	Remove to fresh air. Get medical attention if any discomfort continues.
Ingestion	Immediately flush with plenty of water for 15 minutes. Get medical attention immediately.

### 5. FIRE FIGHTING MEASURES

Suitable extinguishing media	Powder, water spray, foam.
Unsuitable extinguishing media	Carbon dioxide.
Special protective equipment / procedures	A self-contained respirator and protective clothing should be worn. Keep containers cool with water spray until well after fire is out. Determine the need to evacuate or isolate the area according to your local emergency plan.
Special exposure hazards arising from the substance or preparation itself, combustion products and resulting gases	Carbon dioxide, carbon monoxide, incompletely burned carbon products.

### 6. ACCIDENTAL RELEASE MEASURES.

Personal precautions	Avoid contact with skin and eyes. Do not breathe vapours and ventilate the area. Remove all sources of ignition. Wear suitable protective equipment during clean up.
Precautions to protect the environment	Keep away from drains and watercourses.
Methods for cleaning up	Allow foam to fully cure and then scrape up into a suitable container. Seal container for disposal as inert waste.

### 7. HANDLING AND STORAGE

Advice on safe handling	Ensure good ventilation to prevent exposure levels being exceeded. Avoid eye and skin contact and breathing the vapour. Keep away from all sources of ignition - no smoking. Always spray away from the body and from other people. Wear gloves and eye protection if necessary. Keep away from food and drink. Wash hands thoroughly with soap and water before eating or drinking. Never puncture containers, even when empty.
Advice on storage	Store in a cool, dry, well-ventilated place between 5°C and 25°C and away from direct sunlight, heat or other chemicals. Pressurised container. Protect from sunlight and do not expose to temperature exceeding 50°C.

# PRODUCT SAFETY DATA SHEET

According to article 31 and Annex II of the EU REACH Regulation

## HODGSON FIRE FOAM

Version No: 4

Revision Date: 11/07/2012

Page 3 of 3

### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

#### Exposure controls for hazardous components

Name	CAS No.	Workplace Exposure Limits
Diphenylmethane diisocyanate, isomers & homologues	9016-87-9	Short Term 0.07 mg/m <sup>3</sup> Long Term 0.02 mg/m <sup>3</sup>
Dimethyl ether	115-10-6	Short Term 958 mg/m <sup>3</sup> , 500ppm Long Term 766 mg/m <sup>3</sup> , 400ppm
1, 1, 1, 2 - Tetrafluorethan	811-97-2	Long Term 4240 mg/m <sup>3</sup> , 1000ppm

#### Personal protective equipment

Respiratory protection	In well ventilated areas, air-fed respirators could be replaced by a combination of charcoal filter and particulate filter mask. Check with protective equipment manufacturers.
Hand protection	Chemical protective gloves should be worn where repeated or prolonged contact can occur. Barrier creams may help protect exposed areas of skin but should not be applied once exposure has occurred.
Eye protection	Safety glasses should be worn.
Skin protection	Barrier creams may help protect exposed areas of skin but should not be applied once exposure has occurred. Wear well fitting clothing.
Hygiene measures	Exercise good industrial hygiene practice. Wash after handling, especially before eating, drinking or smoking.
Environmental exposure controls	Refer to section 6 & 12.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance and odour	Rigid foam when fully cured. Amine-like odour when sprayed.
Colour	Pink.
Flash point	< 0°C for aerosol spray. Not applicable for cured foam.
Specific gravity	1.1g/cm <sup>3</sup>
Explosive limits	4 - 9 % by volume (for aerosol).

The above information is not intended for use in preparing product specifications.

# PRODUCT SAFETY DATA SHEET

According to article 31 and Annex II of the EU REACH Regulation



## HODGSON FIRE FOAM

Version No: 4

Revision Date: 11/07/2012

Page 4 of 4

### 10. STABILITY AND REACTIVITY

General information	Stable at room temperature.
Conditions to avoid	Heat sources, sources of ignition, direct sunlight, etc.
Materials to avoid	Keep away from oxidising agents, strongly alkaline and strongly acidic materials.
Hazardous decomposition	When exposed to high temperatures, may produce carbon dioxide, carbon monoxide and incompletely burned carbon products.

### 11. TOXICOLOGICAL INFORMATION

On contact with eyes	Product sprayed in the eyes may cause irritation.
On skin contact	Repeated or prolonged skin contact may cause removal of natural fat from the skin resulting in non-allergic contact dermatitis, absorption through the skin and, eventually, allergic contact dermatitis.
On inhalation	Based on the properties of the isocyanate components and considering toxicological data on similar preparations, liquid/uncured foam may cause acute irritation and sensitisation of the respiratory system leading to an asthmatic condition, wheeziness and tightness of the chest. Sensitised individuals may subsequently show asthmatic symptoms when exposed to atmospheric concentrations below the exposure limits. Repeated exposure may lead to permanent respiratory disability.
On ingestion	May cause irritation of the mouth, throat and digestive system and eventual vomiting.
Other health hazard information	People with isocyanate allergy should not be contact with the content.

### 12. ECOLOGICAL INFORMATION

Ecotoxicity effects	Avoid uncured product being released into the environment.
Environmental fate and distribution	Product should not be allowed into drains or watercourses. After curing, the product is low hazard.
Fate and effects in waste water treatment plants	Avoid uncured product being released into the environment.
Persistence and degradability	Biologically not degradable. Avoid incorporation to the environment.

### 13. DISPOSAL CONSIDERATIONS

Product disposal	Unused product and empty canister should be disposed of as hazardous waste via a licensed waste disposal contractor. Empty canister completely and let the sprayed material cure. EWC for cured foam 17.06.04
Packaging disposal	Product should be disposed of as hazardous waste by incineration or landfill via a licensed waste disposal contractor. EWC for empty canisters 16.05.04

# PRODUCT SAFETY DATA SHEET

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## HODGSON FIRE FOAM

Version No: 4

Revision Date: 11/07/2012

Page 5 of 5

### 14. TRANSPORT INFORMATION

#### Road / Rail (ADR/RID)

Proper Shipping Name:	Aerosols, flammable		
UN-Number	1950	Class: 2	Classification Code: 5F
Limited Quantities	1L – Maximum inner packing of up to 1 litre with a total packing weight of up to 30Kg can be transported under limited quantities provisions		
Special Provisions	SP625 – Packages should be clearly marked 'UN1950 Aerosols'.		

#### Sea transport (IMDG)

Proper Shipping Name:	Aerosols		
UN-Number	1950	IMDG Class: 2	
EmS-Nr	F-D, S-U	Marine Pollutant: No	

#### Air transport (ICAO)

Proper Shipping Name:	Aerosols, flammable		
UN-Number	1950	ICAO Class: 2.1	

# PRODUCT SAFETY DATA SHEET

According to article 31 and Annex II of the EU REACH Regulation

## HODGSON FIRE FOAM

Version No: 4

Revision Date: 11/07/2012

Page 6 of 6

### 15. REGULATORY INFORMATION

#### Labelling according to EEC directive

Nature of hazard	Extremely Flammable, Harmful.
Hazard symbols	F+, Xn
R-phrases	R12 Extremely flammable. R18 In use, may form flammable/explosive vapour-air mixture. R20 Harmful by inhalation. R36/37/38 Irritant to eyes, respiratory system and skin. R42/43 May cause sensitisation by inhalation and skin contact.
S-phrases	S2 Keep out of reach of children. S16 Keep away from sources of ignition – No smoking. S23 Do not breathe vapour. S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. S36/37 Wear suitable protective clothing and gloves. S38 In case of insufficient ventilation wear suitable respiratory equipment. S45 In case of accident or you feel unwell, seek medical advice immediately (show the label where possible). S51 Use in well ventilate areas S56 Dispose of this material and its container to hazardous or special waste collection.
Other phrases	Contains Diphenylmethane-4,4'-di-isocyanate. See information supplied by the manufacturer . Pressurised container. Protect from sunlight and do not expose to temperature exceeding 50°C. Do not pierce or burn, even after use. Do not spray on naked flame or any incandescent material.

### 16. OTHER INFORMATION

This Product Safety Data Sheet was prepared in compliance with article 31 and Annex II of the EU REACH regulation as well as their relevant amendments, on the approximation of laws, regulations and administrative provisions relative to the classification, packaging and labelling of dangerous substances and preparations.

This product should only be used as stated in Hodgson literature. It is the responsibility of the persons in receipt of this Product Safety Data Sheet to ensure that the information contained herein is properly read and understood by all people who may use, handle, dispose of, or in any way come in to contact with the product. If the recipient subsequently produces a formulation containing the Hodgson product, it is the recipient's sole responsibility to ensure the transfer of all relevant information from the Hodgson Product Safety Data Sheet to their own Product Safety Data Sheet in compliance with article 31 and Annex II of the EU REACH regulation.

All information and instructions provided in the Product Safety Data Sheet are based on the current state of scientific and technical knowledge at the date indicated on the present Product Safety Data Sheet. Hodgson shall not be held responsible for any defect in the product covered by this Product Safety Data Sheet, should the existence of such defect not be detectable considering the current state of scientific and technical knowledge.