



suppliers of passive fire products, acoustic and specialist insulation
manufacturers of the Safire Fire Stopping Range

Material Safety Data Sheet

FIRE RATED EXPANDING FOAM

Section 1: Identification of the Substance/Preparation and of Company undertaking

1.1 Identification of the substance or preparation:

Product: Fire Rated Expanding Foam
Product Type : Intumescent
Application: for gap filling cavities around doors and windows.

1.2 Company/undertaking identification:

Fireus Ltd, Unit 6, Thetis Road, Lune Industrial Estate, Lancaster, LA1 5QP,
United Kingdom
Telephone:01524 388898 Fax:01524 383724 [E-mail: info@fireus.co.uk](mailto:info@fireus.co.uk)

Section 2: Composition/Information on Ingredients

<u>Ingredient Name</u>	<u>CAS No.</u>	<u>Contents (class)</u>	<u>Health (R No.)</u>	<u>Risk*</u>
Diphenyl Methane - 4, 4'-Di-Isocyanate	101-68-8	5-10%	X n	20.36/37/38
Propane	74-98-6	1-5%		
Isobutane	75-28-5	1-5%		
Butane	106-97-8	1-5%		
Dimethyl Ether	115-10-6	5-10%		

Section 3: Harzards Identification

Extremely flammable. Irritating to eyes, respiratory system and skin, when used in a confined environment. May cause sensitisation by inhalation and skin contact.

Section 4: First Aid-Measures

General Note: Effects may be delayed. Keep affected person under observation.



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- Inhalation:** Move the exposed person to fresh air at once. Perform artificial respiration if breathing has stopped. Keep the affected person warm and at rest. Get prompt medical attention.
- Ingestion:** DO NOT INDUCE VOMITING! NEVER MAKE AN UNCONSCIOUS PERSON VOMIT OR DRINK FLUID! Seek medical attention.
- Skin:** This product bonds to skin extremely well. Carefully remove the cured product by physical means, soften the remaining material with moisturiser and allow to degrade by natural means.
- Eyes:** Promptly wash eyes with plenty of water while lifting the eyelids. Get medical attention immediately. Continue to rinse.

Section 5: Fire-Fighting Measures

Extinguishing media: Powder, foam or CO2. Larger fires: Water, spray, fog or mist.

Special Fire Fighting Procedures:

Use water to keep fire-exposed containers cool and disperse vapours. Move container from fire area if it can be done without risk. Keep run-off water out of the sewers and water sources. Dike for water control. If risk of water pollution occurs, notify appropriate authorities. Use pressurised air mask if substance is involved in a fire.

Unusual Fire and Explosion Hazards:

Aerosol cans may explode in fires. May develop highly toxic or corrosive fumes if heated.

Section 6: Accidental Release Measures

Spill Clean Up Methods: Extinguish all ignition sources. Avoid sparks, flames, heat and smoking.

Ventilation: Provide ventilation and confine spill. Do not allow run off to sewer or touch spilled material. Shovel into dry containers, cover and move. Flush the area with water.



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Section 7: Handling and Storage

Usage Precautions:	Do not use in confined spaces without adequate ventilation and/or respirator. Risk of vapour concentration on the floor and in low-lying areas. Keep away from heat, sparks and open flame. Avoid spilling, skin and eye contact. Do not use contact lenses.
Storage Precautions:	Store at moderate temperatures in dry, well-ventilated area. Keep away from heat, sparks and open flames.
Storage Criteria:	Misc. hazardous material storage. Flammable compressed gas storage.

Section 8: Exposure Controls/Personal Protection

Ingredient Comments:	OES = Occupational Exposure Standard. MEL = Maximum Exposure Limit.
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Exposure limits for isocyanates are quoted as NCO.

Protective Equipment:	Glasses, gloves, and ventilation.
Ventilation:	Provide adequate general and local exhaust ventilation.
Respirators:	Respiratory protection may be required.
Protective Gloves:	Use protective gloves made of ubber, neoprene or PVC.
Eye Protection:	Wear splash proof goggles to prevent any possibility of eye contact. Contact lenses should not be worn when working with this chemical.
Other Protection:	Use engineering controls to reduce air contamination to permissible exposure level. Wear appropriate clothing to prevent any possibility of skin contact.
Hygienic Work Routines:	Wash promptly if skin becomes contaminated. Wash at the end of each work shift and before eating, smoking and using the toilet. Change work clothing daily if contamination is reasonably probable.

Section 9: Physical and Chemical Properties

Appearance:	Aerosol or Viscous. Liquid or solid. Foam
Colour:	Pink
Physical Data	
Comments:	Information given concerns the major ingredient



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Solubility: Hardens in contact with water. Slightly soluble in: Organic solvents (most).
Viscosity: Not applicable
Flash point (°C): < 20
Flash Point
Method: OC (Open cup)
Flammability: Non-combustible

Section 10: Stability and Reactivity

Stability: Normally stable. Avoid heat, sparks, and flames.
Materials to Avoid: No incompatible groups noted.
Hazardous Decomposition
Products: Fire creates: Toxic gases/vapours/fumes of: Ammonia or amines. Carbon monoxides (CO). Oxides of: Nitrogen. Hydrogen cyanide (HCN). Nitrous gases (Nox).

Section 11: Toxicological Information

HealthWarnings: This chemical can be hazardous when inhaled and/or touched.
Inhalation: Prolonged inhalation of high concentration may damage respiratory system. Pulmonary sensitiser. Recognised allergen.
Skin Contact: May cause sensitisation by skin contact.
Eye Contact: Irritating to eyes.
Eyes, Nose & Mouth: May cause temporary blindness and severe eye damage.
Respiratory System: Repeated exposure may cause chronic upper respiratory irritation.
Route of Entry: Inhalation, ingestion, skin and/or eye contact.
Target of Organs: Eyes. Respiratory system, lungs. Skin.
Medical Symptoms: Eye and Mucous Membranes: Irritation of eyes and mucous membranes.
Respiratory System: General respiratory distress, unproductive cough.
Skin: Skin irritation, brown skin stains.

Medical Considerations: Chronic respiratory and obstructive airway diseases. Skin disorders and allergies. Allergic reactions may develop after inhalation of low concentrations, also several hours after exposure.

Section 12: Ecological Information

Environmental Hazards: Little danger to the environment.



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Section 13: Disposal Considerations

- Disposal Operations: No special disposal necessary. Dispose of in accordance with Local Authority regulations. Do not discharge into drains or water courses.
- Disposal of Packaging: Dispose of as normal industrial waste according to local or national legislation.

Section 14: Transport Information

- Label for Conveyance: Flammable Gas

Section 15: Regulatory Information

- Label for Supply: Extremely Flammable, Harmful
- UK Regulation References: Health and Safety atWork Act 1974.
Chemical (Hazard Information and Packaging)
Regulation 1999
The Control of Substances Hazardous to Health
Regulation 1988
- Guidance Notes: Occupational Exposure Limits EH40
Isocyanates Toxic Hazards and Precautions EH16
CHIP for Everyone HSG (108)

Section 16: Other Information

The information contained in the Health and Safety Data Sheet is provided in accordance with the requirements of the CHIP Regulations. The product should not be used for purposes other than those identified without first referring to the supplier and obtaining written handling instructions. As the specific conditions of use of the product are outside the suppliers control, the user is responsible for ensuring that the requirements of relevant legislation are complied with. This information contained in the safety data sheet is based on present knowledge and current national legislation. It provides guidance on health, safety and environmental aspects of the product and should not be construed as any guarantee of technical performance or suitability for particular application.

The foregoing information is believed to be accurate at the time of preparation of this document, and is provided in good faith. However, no warranty or representation with respect to such information is intended or given. Fireus Limited reserves the right to amend specifications without prior notice.