

SAFETY DATA SHEET

1: IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND OF THE COMPANY / UNDERTAKING

Product Name: **SECOFOAM**

Application: Expanding polyurethane foam.

Company: **Fosroc Limited**

Address: Coleshill Road, Tamworth, Staffordshire. B78 3TL

Telephone: 01827 262222 (Out of Hours) 01827 265279 Fax: 01827 262444

2: COMPOSITION/INFORMATION ON INGREDIENTS

Composition: diphenylmethane-4-4'-diisocyanate (mixture of isomers and polymers), dimethyl ether and butane propellant.

Hazardous Ingredient(s)	Symbol	Risk Phrases	Other Information	%
diphenylmethane-4,4'- di-isocyanate (isomers)	Xn	R20, 36/37/38, 42	Cas No: 101-68-8	>45
dimethyl ether	F+	R12	Cas No: 115-10-6	<10
butane	F+,	R12	Cas No: 106-97-8	<5

All constituents of this product are listed in EINECS (European Inventory of Existing Commercial Chemical Substances) or ELINCS (European List of New Chemical Substances) or are exempt.

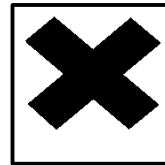
Refer to Section 8 for Occupational Exposure Limits.

3: HAZARDS IDENTIFICATION

Extremely flammable.
Harmful by inhalation.
Irritating to eyes, respiratory system and skin.
May cause sensitisation by inhalation.



EXTREMELY
FLAMMABLE



HARMFUL

4: FIRST AID MEASURES

Eyes: Irrigate immediately with copious quantities of water for several minutes. Obtain medical attention urgently.

Skin: Wash immediately with soap and water or suitable skin cleanser. Remove contaminated clothing immediately. Obtain medical attention if irritation persists.

Inhalation: Remove from exposure, rest and keep warm and obtain medical attention urgently.

Ingestion: Wash out mouth with water. Do NOT induce vomiting. Obtain medical attention urgently. Beware of aspiration if vomiting occurs.

5: FIRE FIGHTING MEASURES

Suitable Extinguishing Media: Carbon dioxide, powder, foam or water fog - Do not use water jets.

Special Exposure Hazards: Toxic fumes. For further information see Section 10. Aerosols may overpressurise and burst with combustion of contents.

Special Protective Equipment: Self-contained breathing apparatus.

6: ACCIDENTAL RELEASE MEASURES

Personal Precautions: Immediately issue NO SMOKING and NO NAKED FLAMES warnings. Wear self contained breathing apparatus and protective clothing.

Environmental Precautions: Prevent entry into drains, sewers and water courses.

Decontamination Procedures: Soak up with inert absorbent or contain and remove by best available means. Gather into containers. Dispose of as waste.

7: HANDLING AND STORAGE

Handling: Do not use near sources of ignition. Do not smoke. Use only in well ventilated areas. Avoid breathing vapours and spray mist. Eye and skin contact with uncured foam must be avoided. Foam rapidly cures in contact with skin making removal extremely difficult. Pressurised container. Do not open even when empty.

Storage: Store in conformity with local fire regulations (for further information see Section 15). Store in a cool place away from sources of heat and out of direct sunlight to avoid pressure build up. Do not store at temperatures above 40°C.

8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational Exposure Limits:-

Substance	8 Hour TWA	STEL	Source/Other Information
isocyanates, all (as NCO)	0.02 mgm ⁻³ (MEL)	0.07 mgm ⁻³ (MEL)	EH40
butane	1450 mgm ⁻³	1810 mgm ⁻³	EH40

Engineering Control Measures: Use only in well ventilated areas, or use mechanical ventilation to ensure exposure to atmospheric levels of isocyanate is as far below the MEL value as possible.

Personal Protective Equipment: In case of insufficient ventilation wear suitable respiratory equipment. Impervious gloves (eg butyl rubber). Safety glasses / Goggles. Change contaminated clothing immediately and clean before re-use.

9: PHYSICAL AND CHEMICAL PROPERTIES

Physical State:	Aerosol.
Colour:	Colourless.
Odour:	Odourless.
pH(concentrate):	Not applicable (non-aqueous).
Boiling Point/Range (°C):	-40 to 100
Flash Point (closed, °C):	<0
Autoflammability (°C):	Autoignition temperature: >100
Oxidising Properties:	Not determined.
Vapour Pressure (kPa at 20°C):	500
Relative Density (at 20°C):	1.1
Water Solubility:	Insoluble.

10: STABILITY AND REACTIVITY

Stability: Contains pressurised gas. Hazardous polymerisation will not occur unless exposed to amines, alcohols, water, acids or heat

Conditions to Avoid: Any source of ignition. Temperatures (°C) above 40.

Materials to Avoid: Contamination by water. Alcohols. Amines.

Hazardous Decomposition Products: Thermal decomposition:- Oxides of carbon, in some fire circumstances, hydrogen cyanide. Acidic fumes.

11: TOXICOLOGICAL INFORMATION

The following toxicological assessment is based on a knowledge of the toxicity of the product's components.
Oral LD50, rat >15g/kg

Health Effects

On Eyes: Severe irritation.

On Skin: Irritation. Uncured foam will rapidly cure on contact with skin making removal extremely difficult.

Created with

By Inhalation: Harmful by inhalation. Concentration-dependent risk of irritating effect on eyes, nose, throat and respiratory tract. Delayed appearance of the complaints and development of hyper-sensitivity (difficult breathing, coughing asthma) are possible. Hypersensitive persons may suffer from these effects even at low isocyanate concentrations.

By Ingestion: May cause nausea, vomiting and diarrhoea.

Other: Persons who suffer from hypersensitivity of the respiratory tract (e.g. asthmatics and those who suffer from chronic bronchitis) are advised not to work with this product.

12: ECOLOGICAL INFORMATION

Environmental Assessment: When used and disposed of as intended, no adverse environmental effects are foreseen.

Mobility: Contains volatile components. Insoluble in water.

Persistence and Degradability: Not readily biodegradable.

Bioaccumulative Potential: Not known.

Ecotoxicity: Not expected to be ecotoxic to fish/daphnia/algae.

13: DISPOSAL CONSIDERATIONS

Disposal must be in accordance with local and national legislation.

Unused Product: Dispose of through an authorised waste contractor to a licensed site.

Used/Contaminated Product: Dispose of through an authorised waste contractor to a licensed site. Do not empty into drains, sewers or water courses.

Packaging: Must be disposed of through an authorised waste contractor. Do not puncture or incinerate aerosol containers.

14: TRANSPORT INFORMATION

UN Number: 1950

IMO: Class: 2.1 **Marine Pollutant:** No

IATA/ICAO: Class: 2 / 3 **Packing Group:**

ADR: Class: 2 **Item:** 10 (b)1

Transport Name: Aerosols, flammable, n.o.s (dimethyl ether/butane mixture)

15: REGULATORY INFORMATION

Hazard Label Data:-

Named Ingredients: diphenylmethane-4-4'-diisocyanate (mixture of isomers and polymers).

UN Number: 1950

Symbol(s): F+, Xn

Risk Phrases: Extremely flammable.
Harmful by inhalation.
Irritating to eyes, respiratory system and skin.
May cause sensitisation by inhalation.

Safety Phrases: Keep out of reach of children.
In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
After contact with skin, wash immediately with plenty of soap and water.
In case of insufficient ventilation, wear suitable respiratory equipment.
In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
Contains isocyanates. See information supplied by the manufacturer.

EC Directives: Dangerous Substances Directive, 67/548/EEC and adaptations.
Dangerous Preparations Directive, 88/379/EEC.
Safety Data Sheets Directive, 91/155/EEC.

Statutory Instruments: Health & Safety at Work, etc. Act 1974.
Chemicals (Hazard Information and Packaging for Supply) (Amendment) Regs. 1996 (SI 1092).
Environmental Protection (Duty of Care) Regs. 1991 (SI 2839).
Highly Flammable Liquids & Liquefied Petroleum Gases Regs. 1972 (SI 917).

Codes of Practice: Waste Management. The Duty of Care.

Guidance Notes: Occupational exposure limits (EH 40).
Isocyanates: toxic hazards and precautions (EH16).

The above publications are available from HMSO

16: OTHER INFORMATION

The data and advice given apply when the product is used for the stated application or applications. The product is not sold as suitable for any other application. Use of the product for applications other than as stated in this sheet may give rise to risks not mentioned in this sheet. The product should not be used other than for the stated application or applications without seeking advice from Fosroc Ltd.

If this product has been purchased for supply to a third party for use at work, it is the purchaser's duty to take all necessary steps to secure that any person handling or using the product is provided with the information in this sheet.

It is the responsibility and duty of the employer to inform employees and others who may be affected of any hazards described in this sheet and of any precautions which should be taken.

This sheet does not constitute or substitute for the users own assessment of workplace risk, as required by other health and safety legislation.

Further copies of this Safety Data Sheet may be obtained from Fosroc Limited.

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REVISION

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