

MATERIAL SAFETY DATA SHEET

SECTION 1. IDENTIFICATION OF SUBSTANCE/ PREPARATION AND COMPANY

INDUSTRIAL FOAM

Tel: +44 (0) 1462 422 260
Fax: +44 (0) 1462 422 262
Emergency Tel: (9.00am—5.00pm)
+ 44 (0) 1462 422 260

The Robex Group
Knowl Piece
Wilbury Way
HITCHIN
Hertfordshire
United Kingdom
SG4 0TY

SECTION 2. COMPOSITION/INFORMATION ON INGREDIENTS

Substance present	CAS No	EINECS No	R No	Conc. range
Diphenylmethan-4,4' diisocyanate	101-68-8	2029660	R20-36/37/38-42	5-15%
Polyurethane prepolymer	mixture	mixture	unclassified	over 30%
1,1,-Difluoroethane	75-37-6	2008661	R11	15-30%
Butane	106-97-8	2034487	R12	5-15%

SECTION 3. HAZARDS IDENTIFICATION

Human

If ingested may cause some irritation to the mouth and upper digestive tract.

May cause significant eye irritation.

May cause significant skin irritation especially if exposure is prolonged and /or repeated.

Unlikely to cause damage to internal organs following skin contact.

May cause sensitisation following inhalation.

Prolonged inhalation of high concentrations of the aerosol and derived vapours may induce drowsiness, headache, loss of coordination and narcosis.

In severe over exposure this may lead to coma or death.

Inhalation of the aerosol may also cause significant irritation of the nose and upper respiratory tract.

Safety

Extremely Flammable.

Ecological

Inherently biodegradable so unlikely to accumulate in the aquatic environment.

Discharge of large quantities into the aquatic environment may kill fish and other aquatic organisms.

SECTION 4. FIRST AID MEASURES

Ingestion: Wash out mouth with water. Do not induce vomiting. Seek medical advice.

Skin contact: Wash the skin with soap and water. Seek medical attention if skin appears damaged.

Eye contact: Immediately wash the eye with plenty of water for at least 10 minutes holding the eye open. Seek medical attention if symptoms persist.

Inhalation: Remove from exposure. Keep warm and at rest. If breathing stops or shows signs of failing apply artificial ventilation. Seek medical attention urgently.

Industrial Foam - cont

SECTION 5. FIRE FIGHTING MEASURES

Will form oxides of carbon and nitrogen and hydrogen fluoride if burnt.

In case of fire use powder, foam, sand, water spray.

Avoid using large quantities of water.

In case of fire, cool the stored aerosol cans with water spray.

In case of fire, self contained breathing apparatus should be worn.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Contain and collect spillage.

Absorb on to sand/kieselguhr or other inert material.

Failure to contain a release must be notified to the local authority.

Wear impervious gloves/overalls, eye protection and a vapour absorbing face mask while clearing up the spillage.

May make floor very slippery.

Do not wash into the drains.

Place in plastics barrels for disposal.

Do not mix with other waste materials.

Dispose of in accordance with State and local authority regulations.

Seek advice from the local waste authority.

SECTION 7. HANDLING AND STORAGE

Keep away from sources of ignition.

Store the aerosol cans at between 5 and 50°C out of direct sunlight.

Use in a well ventilated area.

SECTION 8. EXPOSURE CONTROL/PERSONAL PROTECTION

Avoid contact with eyes, skin or clothes, do not inhale the spray.

Working procedures should be designed to minimise worker exposure to this product. Where this is not possible the following personal protective equipment should be provided.

Hand protection: Impervious gloves recommended

Skin protection: Protective overalls and shoes/boots recommended.

Eye protection: Chemical safety goggles must be worn.

Respiratory protection: Adequate respiratory protection must be worn.

All personal protective equipment must comply with the appropriate EEC (CE) standards and should be maintained and stored to ensure continued suitability for use. Workers should be trained in the effective use and maintenance of the personal protective equipment provided.

Occupational exposure limits

Diphenylmethan-4,4' diisocyanate OES - 8-hr TWA 0.02mg/m³

Butane OES - 8 hr TWA 1430mg/m³, 15 min. STEL

1780 mg/m³ EH40/94

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Aerosol.
 Solubility in water: Insoluble.
 Flash point: below 23°C

SECTION 10. STABILITY AND REACTIVITY

May react with strong oxidants.
 Decomposition can occur above 100°C after loss of any volatile components.

SECTION 11. TOXICOLOGICAL INFORMATION

LD50 (oral rat) >2000mg/kg.
 Not classified as "Harmful if swallowed". May cause some irritation of the mouth and upper digestive tract.
 May produce significant skin irritation after prolonged contact.
 May cause significant eye irritation.
 Repeated exposure may cause respiratory sensitisation.

SECTION 12. ECOLOGICAL INFORMATION

This product is inherently biodegradable.
 Do not release into surface waters.

SECTION 13. DISPOSAL CONSIDERATIONS

When disposing of waste or surplus material avoid contact with the eye and skin. Wear impervious gloves/overalls, chemical safety goggles and suitable respiratory protection.
 Do not wash into the drains.
 Do not mix with other waste materials.
 Seek advice from the local waste authority.

SECTION 14. TRANSPORT INFORMATION

This product is classified as Dangerous for Transport and should be labelled:-
 A flammable aerosol UN No 1950 flammable gas class 2.1

SECTION 15. REGULATORY INFORMATION

This preparation has been assessed using the health and safety criteria laid down in the EEC Directives on the Control of Dangerous Substances and Preparations. It is found to be classified as "Dangerous" according to both the health and safety criteria and should be labelled:-

EXTREMELY FLAMMABLE

HARMFUL

R26/38	Irritating to eyes, respiratory system and skin.
R42	May cause sensitisation by inhalation.
R12	Extremely flammable.
R18	In use, may form flammable/explosive vapour-air mixtures.
S2	Keep out of reach of children.
S24/25	Avoid contact with skin and eyes.
S23	Do not breathe spray/vapour,
S52	Use only in well ventilated areas.
S46	If swallowed, seek medical advice immediately and show the container or label.
S28	After contact with skin, wash immediately with plenty of soap and water. In case of contact with eyes, rinse immediately with plenty of water. Seek medical advice.
S26	In case of contact with eyes, rinse immediately with plenty of water. Seek medical advice.
S43	In case of fire, use dry chemical, foam or fine water spray. Do not use water jet.

Chemicals to be reported on label

Diphenylmethane-4,4'-diisocyanate

Pressurised container: protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn the can, even after use.

Do not spray on naked flames or incandescent material.

Do not spray into the eyes or onto the skin and avoid inhalation of the vapour or spray.

SECTION 16. OTHER INFORMATION

The information contained in this data sheet is provided in accordance with the requirements of the Chemicals (Hazard Information and Packaging) Regulations. It does not constitute the user's own assessment of workplace risks which are required by other health and safety legislation. The provisions of the Health and Safety at Work etc. Act and the Control of Substances Hazardous to Health Regulations apply to the use of this product at work.

The product should not be used for purposes other than those shown in Section 1 without first referring to the supplier and obtaining written handling instructions. As the specific conditions of the product are outside the supplier's control, the user is responsible for ensuring that the requirements of the relevant legislation are complied with.

This product should be stored, handled and used in accordance with good industrial hygiene practices and in conformity with legal regulations. The information contained herein is based on the current state of our knowledge and is intended to describe products from the point of view of safety requirements and thus should not be construed as guaranteeing specific properties.

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Material safety data sheet produced by: The Robex Group Wilbury Way HITCHIN Hertfordshire UK SG4 OTY

Tel: + 44 (0) 1462 422 260

Fax: +44 (0) 1462 422 262

www.robex.co.uk