



HEALTH AND SAFETY DATA SHEET

RAPIDSEAL B3 PREMIUM FOAM

1. IDENTIFICATION OF THE SUBSTANCE/ MIXTURE & OF THE COMPANY/ UNDERTAKING:

Product Name Rapidseal B3 Premium Foam
Company Name IFI
 Rutland Business Park
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 PE1 5WA

 UNITED KINGDOM

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2. INGREDIENTS:

Diphenylmethane-4,4'- disocyanate (MDI)	101-68-8	45~65
Polymeric MDI	9016-87-9	
Dimethylether	115-10-6	20~30
Butane	106-97-8	15~25
Propane	74-98-6	5~15

3. HAZARDS IDENTIFICATION:

3.1 Emergency overview

Specific Physical Form: Compressed liquid
Odour, Colour, Grade: Light
General physical form: Foam

Immediate health, physical and environmental hazards:

3.2 Potential health effects

3.2.1 Eye contact:

Causes eye irritation
Direct contact will irritates with redness and swelling. Foam contact can cause physical damage due to adhesive character.

3.2.2 Skin contact:

May cause skin irritation
Prolonged or repeated exposure may lead to sensitisation and/or contact dermatitis.

3.2.3 Inhalation:

May cause irritation of mucous membranes in the mouth and digestive tract.
Signs/ symptoms may include cough, sneezing, nasal discharge, headaches, hoarseness and nose and throat pain.

3.2.4 Ingestion

May irritate mucous membranes with tightness in chest, coughing, or allergic asthma-like sensitivity. Extensive over-exposure can lead to respiratory symptoms like bronchitis and pulmonary edema.

4. FIRST AID MEASURES:

- 4.1 The following First Aid recommendations are based on an assumption that appropriate personal and industrial hygiene practices are followed.
- 4.1.1 **Eye contact:**
Flush with warm water seek medical assistance.
- 4.1.2 **Skin contact:**
Remove excess foam from skin and remove contaminated clothing. Wash skin with plenty of soap and water. While removing contaminated clothing and shoes, if irritation develops, seek medical attention.
- 4.1.3 **Inhalation:**
Remove the affected person(s) from the area into fresh air. If signs/ symptoms develop, seek medical attention.
- 4.1.4 **If swallowed:**
Rinse mouth out with water as quickly as possible. Never give anything by mouth to an unconscious person. Seek immediate medical assistance.
- 4.1.5 **Comments:**
Treat symptomatically. Effects may be delayed.

5. FIREFIGHTING MEASURES:

5.1 Flammable properties

Auto-ignition temperature	No Data Available
Flash point:	Not Applicable
Flammable Limits - LEL	Not Applicable
Flammable Limits - UEL	Not Applicable

5.2 Extinguishing media

On large fires use dry chemical, foam or water spray
On small fires use carbon dioxide (CO₂), dry chemical or water spray
Water can be used to cool fire exposed containers

5.3 Protection of Fire Fighters

Special fire fighting procedures

Self-contained breathing apparatus (SCBA) and protective clothing should be worn in fighting fires involving chemicals. Determine the need to evacuate or isolate the area according to your local emergency plan. Use water spray to keep fire exposed containers cool.

High temperature will raise the pressure in the containers, which may lead to rupturing. Cured foam is organic and, therefore, will burn in the presence of sufficient heat, oxygen and an ignition source. Avoid welding or other 'hot work' in the vicinity of exposed cured foam.

Unusual fire and explosion hazards – not applicable

Note: See STABILITY AND REACTIVITY (Section 10) for hazardous combustion and thermal decomposition information

6. ACCIDENTAL RELEASE MEASURES:

Accidental release measures:

Self-contained breathing apparatus (SCBA) and protective clothing should be worn for fighting fires involving chemicals. Determine the need to evacuate or isolate the area according to your local emergency plan. Use water spray to keep fire exposed containers cool.

High temperatures will raise the pressure in the containers, which may lead to rupturing. Cured foam is organic and therefore will burn in the presence of sufficient heat, oxygen and an ignition source. Avoid welding or other work involving high temperatures in the vicinity of exposed cured foam.

For larger spills, cover drains and prevent entry into sewer or water system. Working from around the edges of the spill inward, cover with bentonite, vermiculite or commercially available inorganic absorbent material. Mix in sufficient absorbent until it appears dry. Collect as much of the spillage as possible and clean up residue.

Read and follow safety precautions on the product label and MSDS. Collect the resulting residue containing solution. Place in a closed container approved for transportation by approved authorities. Dispose of collected material as soon as possible.

Warning! An engine or motor is an ignition source and could cause flammable gases or vapours in the spill area to burn or explode.

In the event of a release of this material, the user should determine if the release qualifies as reportable according to local and national regulations.

7. HANDLING AND STORAGE:

7.1 Handling

Avoid eye contact with vapours, mists or spray. Avoid skin contact. Avoid breathing of vapours, mists or sprays. Use general dilution ventilation and/or local exhaust ventilation to control airborne exposures to below Occupational Exposure Limits. If ventilation is not adequate, use respiratory protection equipment. Do not ingest. Do not eat, drink or smoke when using this product. Wash exposed areas thoroughly with soap and water.

7.2 Storage

Store in a cool, dry well ventilated place, away from incompatible substances. Ideal storage temperature is 15°C to 27°C. Storage in temperatures higher than advised will reduce the shelf life. Storage in low temperatures may affect the use of the product. Keep away from all sources of ignition. Keep away from direct sunlight.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION:

8.1 Engineering controls

Use general dilution ventilation and/or local exhaust ventilation to control airborne exposures to below Occupational Exposure Limits and/or control mist, vapour and spray. If ventilation is not adequate, use respiratory protection equipment. Use with appropriate ventilation.

8.2 Personal protection equipment (PPE)

8.2.1 Eye/face protection:

Avoid eye contact with vapours, mists or sprays

- Safety glasses with side shields or chemical splash goggles
- 8.2.2 Skin protection:**
Select and use gloves and/or protective clothing.
Gloves made from the following material(s) are recommended: Butyl rubber, Neoprene, and Polyethylene/Ethylene vinyl alcohol.
- 8.2.3 Respiratory protection:**
Avoid breathing of vapours, mists or sprays
Select one of the following NIOSH approved regulations: Half face piece air-purifying respirator with gas cartridges.
- 8.2.4 Prevention of swallowing**
Do not eat, drink or smoke when using this product. Wash exposed areas thoroughly with soap and water.

9. PHYSICAL AND CHEMICAL PROPERTIES:

Item	Data
Specific physical form	Compressed liquid
Odour, colour grade	Milky white, slight odour
Unopened product form	Liquid
Auto ignition temperature	No data available
Flash point	Not applicable
Flammable limits - LEL	Not applicable
Flammable limits - UEL	Not applicable
Boiling point	Not applicable
Vapour density	Not applicable
Vapour pressure	Not applicable
Specific gravity	1.0~1.2[Ref std WATER=1.0]
pH	Not applicable
Melting point	No data available
Solubility in water (%)	No data available
Evaporation rate	Not applicable
Volatile organic compounds	Not applicable
Per cent volatile	Not applicable
VOC less H₂O & exempt solvents	Not applicable
Viscosity	Not applicable
Note: The above information is not intended for use in preparing specifications	

10. STABILITY AND REACTIVITY:

Stability:	Stable under normal and anticipated storage and handling conditions
Materials to avoid:	Avoid alcohol, strong bases or amines and metal compounds
Conditions to avoid:	Ignition source, excess heat
Hazardous polymerisation:	hazardous polymerisation will not occur
Hazardous decomposition:	irritation and toxic fumes and gases. Carbon monoxide, carbon dioxide etc

Hazardous Decomposition or By-product

Substance	Condition
Carbon Monoxide	During combustion
Carbon Dioxide	During combustion
Irritant vapours or gases	During combustion

11. TOXICOLOGICAL INFORMATION:

Routes of Exposure	Refer to section 4 of this MSDS for routes of exposure and corresponding symptoms.
Acute Effects Eyes;	Liquid and vapour contact will cause eye tissue irritation, lacrimation. Skin; Prolonged exposure will cause tingling/irritation, leading to skin defatting, irritation and dermatitis. Ingestion; Prolonged aerosol doses may cause nausea and stomach irritation. Inhalation; Aerosol doses may cause dry/sore throat, coughing, irritation of the respiratory tract, irritation of the nasal mucous membranes, runny nose, headaches, breathing difficulties.
Chronic Effects	May cause sensitization by skin contact or inhalation. Not listed in carcinogenicity class (IARC, EC, TLV, MAK). Not classified as toxic to reproduction (EC). Not listed in mutagenicity class (EC, MAK). Prolonged eye tissue contact may cause permanent damage. Repeated exposure to inhalation could lead to asthma, lung oedema and possible damage to the nervous system.

12. ECOLOGICAL INFORMATION:

Mobility:	Avoid the release of uncured product into the environment. Volatile organic compounds (VOC): 23% Insoluble in water.
Other Adverse Effects:	Unknown eco-toxicity.
WGK	Not known.
Ozone Layer:	Not dangerous for the ozone layer (1999/45/EC) For other physiochemical properties refer to section 9 of this Material Safety Data Sheet

13. DISPOSAL CONSIDERATIONS:

Disposal as Waste Matter:	The user's attention is drawn to the possible existence of regional and/or national regulations regarding the disposal of hazardous waste material and the disposal of empty contaminated packaging and materials.
Waste Code:	Waste Material Code 91/689/EEC, Council decision 2001/118/EC, O.J.L47 of 16/02/2001: 08 04 09 (waste adhesives and sealants containing organic solvents or other dangerous substances). Waste Packaging Code 91/689/EEC, Council decision 2001/118/EC, O.J.L47 of 16/02/2001: 15 01 10(packaging containing residues of or contaminated by dangerous substances).

14. TRANSPORT INFORMATION:

General Information:	This product is packed in accordance with the Limited Quantity Provisions of CDGCPL2, ADR and IMDG. These provisions allow transport of aerosols of less than 1 litre, packed in cartons of less than 30kg gross weight, to be exempt from control providing that they are labelled in accordance with the requirements of these regulations to show that they are being transported as Limited Quantities. Aerosols not so packed and labelled, must follow the following;
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ADR/RID/ADNR;
UN no: 1950
Class: 2
Classification Code: 5 F Gases
Hazard Label: 2.1

IMDG;
UN No: 1950
Classification Code: 2
EMS No. F-D, S-U
Label: 2.1

ICAO-IT & IATA-DGR
UN No. 1950
Class: 2.1
Proper Shipping Name: AEROSOLS, flammable.

Other Information: When substances and their packaging meet the conditions established by ADR/RID/ADNR in section 3 of this MSDS, only the following prescriptions shall be complied with:
Each package shall display a diamond shaped figure with the inscription 'UN1950', Or if in the case of different goods with different UN numbers within a single package, the letters 'LQ'.
ICAO/IATA-DGR

15. REGULATORY INFORMATION:

Labelling According To
Chemicals (Hazard Information
and Packaging for Supply)
Regulations 2002 - CHIP3.1;

Hazard Symbols

Extremely flammable.



Harmful.



Contains: Diphenylmethane 4,4'-Di-isocyanate, Isomers and Homologues.

**Risk Phrases, which
are listed in sections
2, 3 and 16**

R12 - Extremely Flammable.
R20 - Harmful by Inhalation.
R36/37/38 - Irritating to eyes, respiratory system and skin.
R42/43 - May cause sensitization by inhalation and skin contact.

**Safety Phrases,
which are listed in
sections 2, 3 and 16**

S2 - Keep out of reach of children.
S16 - Keep away from sources of ignition. No smoking.
S23 - Do not breathe gas/fumes/vapour/spray.
S26 - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S28 - After contact with skin, wash immediately with plenty of soap and water.

- S37 - Wear suitable gloves.
- S45 - In case of accident or if you feel unwell, seek medical advice immediately.
- S51 - Use only in well ventilated area.
- S56 - Dispose of this material and its container to hazardous or special waste collection point.

NB: The regulatory information given above only indicates the principal regulations specifically applicable to the product described in this Material Safety Data Sheet. The user's attention is drawn to the possible existence of additional provisions which complete these regulations. Refer to all applicable national, international and local regulations or provisions.

16. OTHER INFORMATION:

R-phases, which are listed in sections 2:

- R12 - Extremely Flammable.
- R20 - Harmful by Inhalation.
- R36/37/38 - Irritating to eyes, respiratory system and skin.
- R42/43 - May cause sensitization by inhalation and skin contact.

Hazard symbols, which are listed in sections 2:

- Xn - Harmful.
- F+ - Extremely Flammable

The information provided in this Health and Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the content of the Health and Safety Data Sheet.



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