

## fischer Hand Foam B3

(In accordance with 91/155/EEG, Registration No 48406E)

### 1. IDENTIFICATION OF THE SUBSTANCE & COMPANY

**Trade Name:** fischer Hand Foam B3  
**Normal Use:** Filling, fixing and insulation  
**Company:** fischer Fixing Systems UK Ltd  
**Address:** Hithercroft Ind Estate, Wallingford, Oxon OX10 9AT  
**Tel:** 01491 827900  
**Fax:** 01491 827953

### 2. COMPOSITION AND INFORMATION ON INGREDIENTS

**Chemical Nature:** Preparation of propellant and isocyanatourethan prepolymer

<b>Hazardous ingredients in accordance with 67/548/EEG:</b>	<b>Name</b>	<b>CAS Nr</b>	<b>Conc</b>	<b>Symbol</b>	<b>R-Phrases</b>
	Polymethylene, Polyphenyl, Isocyanate	9016-87-9	>25%	Xn	20-36/37/38-42 /43 (1)
	Dimethyl Ether	115-10-6	1-15%	F+	12(1)
	Propane	74-98-6	1-5%	F+	12(1)
	Isobutane	75-28-5	1-5%	F+	12(1)

Note: (1) For R-Phrases in full: see heading 16.

### 3. HAZARDS IDENTIFICATION

Harmful by inhalation and ingestion. Danger for bursting if heated by increase of inner pressure. If used in not ventilated area formation of explosive gas-air mixture is possible. Protective clothing should be worn.

### 4. FIRST AID MEASURES

**General:** In case of doubt or with persisting symptom, obtain medical attention. Never pass anything through the mouth of an unconscious person.

**Inhalation:** Remove patient from exposure & provide fresh air, keep warm & rested

**Eye Contact:** Irrigate with eyewash solution or clean water, holding the eyelids apart, for at least 10 minutes. Obtain medical attention.

**Skin Contact:** Remove contaminated clothing. Wash skin with soap and water. Use moderate amounts of cleaner solvent.

**Ingestion:** Do NOT induce vomiting. Wash out mouth with water and obtain medical attention. Never give water to an unconscious person.

### 5. FIRE-FIGHTING MEASURES

**Extinguishing Media:** Recommended: Waterjet-foam-powder.  
 Not recommended: Carbon dioxide

**Recommendations:** In case of fire carbon monoxide, nitrogen oxides, isocyanate vapours and traces of cyanides may be formed. Fire fighters should wear self contained breathing apparatus.

### 6. ACCIDENTAL RELEASE MEASURES

Caution - spillages may be slippery. Follow protective procedures, as described under Chapter 7 and 8.  
 Absorb spillages onto sand, earth or any suitable absorbent material.  
 Transfer to a container for disposal (Chapter 13).  
 Do not allow to enter drains, sewers or watercourses. Spilled material

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will polymerise under atmospheric moisture.

## 7. HANDLING & STORAGE

### Handling:

Keep containers dry and closed in a well ventilated area.  
Keep away from any ignition source, no smoking.  
Prevent contact with skin and eyes.  
Keep away from foodstuffs.  
Wash hand thoroughly before breaks and at the end of the working day.

### Storage:

See chapter 8 for personal protection.  
Store in a cool and well ventilated place in the original containers.  
Storage temperature: between +5°C and +25°C.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Technical Safety

Provide personal protection equipment as described.

### Measures:

#### Occupational Exposure

#### Control Limits Ingredient:

Polymethylene, Polyphenyl, Isocyanate		
MEL-LTEL	0.02(-NCO)	mg/m3
MEL-STEL	0.07(-NCO)	mg/m3
Dimethyl Ether:		
OES-LTEL		mg/m3 400
OES-STEL		mg/m3 500
MAK	1900	mg/m3 1000
MAC-TGG 8 h	950	mg/m3
MAC-TGG 15 h	1500	mg/m3
EC	1920	mg/m3 1000
Propane		
TLV-TWA		mg/m3 2500
MAK	1800	mg/m3 1000
Isobutane:		
MAK	2400	mg/m3 1000

### Personal Protection:

#### General Protection and Hygiene:

Washing hands before breaks and at the end of the working day.  
Observe the usual protective measures for manipulation of chemical substances.

Spray is to be held away from the body.

Do not inhale spray.

Change clothes after spillage.

#### Protection of the Respiratory System:

Breathing mask in badly ventilated area

#### Protection of the Hands:

Protective Gloves

#### Eye Protection:

Protective Glasses

#### Skin Protection:

Protective Clothing

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Form:

Aerosol

### Flash Point:

Not applicable

### Viscosity:

Not applicable

### Density:

ca 1.09 g/cm<sup>3</sup>

### Vapour Density:

5 bar at 20°C, 10.5 bar at 50°C

### Solubility in Water:

Not soluble

### Solubility in Other:

Acetone, Methylenchloride

### pH:

N/A

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**Colour:** Yellow-ish white  
**Odour:** Neutral

### 10. STABILITY AND REACTIVITY

When stored and handled in accordance with Chapter 7, the product is stable.

**Hazardous Reactions:** CO<sub>2</sub> - formation in reaction with water.  
**Hazardous Decomposition Products:** No hazardous decomposition products traced by normal handling.

### 11. TOXICOLOGICAL INFORMATION

Sensitivity by inhalation is possible.

MDI-value, measured in use = <0.05%

Many years of experience with fischer Hand Foam - B3 have not shown any dangers for health, if properly used and under the usual industrial hygiene, nor have any indications of damages for health been presented to us.

### 12. ECOLOGICAL INFORMATION

No information on the product itself is available.

Do not allow to enter drains, sewers or watercourses.

Biologically not degradable.

### 13. DISPOSAL CONSIDERATIONS

Do not discharge into drain or the environment, dispose to an authorised waste collection point.

Disposal should be in accordance with local, state or national legislation.

### 14. TRANSPORT INFORMATION

**ADR/RID:** Class: 2.1  
Item: 10.b)1  
Transport Name: Aerosol  
Rn: 2201  
Package Labelling: Aerosol

**IMDG** Class: 9  
UN-Nr: 1950  
Proper shipping name: Aerosol  
Label: Aerosol  
Marine Pollutant: No  
Ems-Nr: 2-13  
MFAG-Tafel: 350

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**ICAO:** Class: 2 & 6.1  
UN-Nr: 1950  
Pkg Gp: II  
Proper Shipping Name: Aerosols, n.o.s., containing substances in  
Division 6.1  
Shipping Instructions: Cargo 203, Passenger 203

### 15. REGULATORY INFORMATION

**Symbols:** Labelling in accordance with directive 88/379/EEC  
Xn - Harmful  
F - Extremely Flammable

**Contains:** Diphenylmethane-4,4'-diisocyanate

**R-phrases:** 20 - 36/37/38 - 42

**S-phrases:** R20: Harmful by inhalation  
R36-37/38: Irritating to eyes, respiratory system and skin  
R42/43: May cause sensitisation by inhalation.  
26 - 28 - 38 - 45

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 water and soap.

S38: In case of insufficient ventilation, wear suitable respiratory equipment.

S45: In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

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

Do not spray on a naked flame or any incandescent material. Keep away from sources of ignition - no smoking. Keep out of reach of children.

Without adequate ventilation formation of explosive mixtures may be possible.

Tactile warning label required.

### 16. OTHER INFORMATION

Test pressure for used cans: 15 bar

The information in this Health & Safety Data Sheet is based on the knowledge at the issue date and in accordance with national law and EC-regulations.

Without written instructions for use, the product may not be used for purposes, other than those specified under Chapter 1.

## HEALTH & SAFETY DATA SHEET



The information in this sheet is meant as a description of safety measures for this product, is not meant as a warranty for quality regarding the technical specifications.

The information in this Data sheet is prepared in accordance with Directives 91/155/EC and 88/379/EC

The information provided on this MSDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as 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 material or in any process, unless specified in the text.