

## Fischer FIRE STOP Hand Foam

( Based on Directive 2001/58/EC of the Commission of the European Communities )

Reference number : BIG\33337GB Revision number : 004

Reason for revision : Directive 2001/58/EC

### 1.IDENTIFICATION OF THE SUBSTANCE AND THE FOAM

**Trade Name:** fischer FIRE STOP Hand Foam  
**Normal Use:** Filling, Fixing & Insulation  
**Company:** fischer Fixing Systems UK Ltd  
**Address:** Hithercroft Road, Wallingford, Oxfordshire. OX10 9AT  
**Tel:** 01491 827920  
**Fax:** 01491 827950

### 2.COMPOSITION AND INFORMATION ON INGREDIENTS

**Hazardous ingredients CAS No.**

**EINECS No.**

**Conc.in % Hazard**

Hazardous Ingredients	CAS No. Einecs/Elincs No.	Conc. In %	Hazard Symbol	Risks (R-Phrases)
Polymethylene Polyphenyl Isocyanate	9016-87-9	>25	Xn	20-36/37/38-42/43 (1)
Halogenated Polyetherpolyol	86675-46-9	1- >10	Xn	22 (1)
Norflurane	811-97-2 212-377-0	1- >10	-	-
Dimethyl Ether	115-10-6 204-065-8	1- >10	F+	12 (1)
Isobutane	75-28-5 200-857-2	1- >10	F+	12 (1)

(1) For R-phrases in full: see heading 16

### 3.HAZARDS IDENTIFICATION

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

### 4.FIRST AID MEASURES

#### 4.1 Eye contact:

Rinse immediately with plenty of water. Seek medical advice.

#### 4.2 Skin contact:

Rinse immediately with plenty of water. If irritation persists: seek medical advice.

#### 4.3 After inhalation:

Remove the victim into fresh air. Seek medical advice.

#### 4.4 After ingestion:

Never give water to an unconscious person. Do not induce vomiting. Seek medical advice.

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## 5. FIRE FIGHTING MEASURES

### 5.1 Suitable extinguishing media:

Quantities of water. Polyvalent foam. BC powder. Carbon dioxide

### 5.2 Unsuitable extinguishing media:

None

### 5.3 Special exposure hazards:

On burning: release of toxic and corrosive gases/vapours: phosphorus oxides, nitrous vapours, hydrogen chloride, hydrogen fluoride, carbon monoxide and carbon dioxide. Gas/vapour spreads at floor level: ignition hazard. Gas/vapour flammable with air within explosion limits. Aerosol may explode under the effect of heat

### 5.4 Instructions:

Dilute toxic gases with water spray. Take account of toxic fire fighting water. Do not move the load if exposed to heat.

### 5.5 Special protective equipment for firefighters:

Heat/fire exposure: compressed air/oxygen apparatus.

## 6. ACCIDENTAL RELEASE MEASURES

### 6.1 Personal protection/precautions:

See headings 8.1/8.3/10.3

### 6.2 Environmental precautions:

Use appropriate containment to avoid environmental contamination

### 6.3 Methods of cleaning up:

Allow product to solidify and remove it by mechanical means. Remove uncured foam with acetone.

## 7. HANDLING & STORAGE

### 7.1 Handling:

Observe very strict hygiene - avoid contact. In case of insufficient ventilation: keep naked flames/sparks away. Remove contaminated clothing immediately. Clean contaminated clothing.

### 7.2 Storage:

Keep out of direct sunlight. Store in a cool area. Store in a dry area. Keep away from: heat sources, ignition sources, acids, bases and ventilation at floor level.

**Storage temperature :** < 50 °C

**Quantity limit :** N.D. kg

**Storage life :** 365 days

**Materials for packaging :**

suitable : aerosol dispenser

### 7.3 Specific uses:

See information supplied by the manufacturer

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1 Exposure limit values:

POLYMETHYLENEPOLYPHENYLISOCYANATE:

**MEL-LTEL** : 0.02(-NCO) **mg/m3** - **ppm**

**MEL-STEL** : 0.07(-NCO) **mg/m3** - **ppm**

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### DIMETHYL ETHER:

<b>OES-LTEL</b>	766	<b>mg/m3</b>	400	<b>ppm</b>
<b>OES-STEL</b>	958	<b>mg/m3</b>	500	<b>ppm</b>
<b>MAK</b>	1900	<b>mg/m3</b>	1000	<b>ppm</b>
<b>MAC-TGG 8 h</b>	950	<b>mg/m3</b>		
<b>MAC-TGG 15 min.</b>	1500	<b>mg/m3</b>		
<b>EC</b>	1920	<b>mg/m3</b>	1000	<b>ppm</b>
<b>GWBB-8h</b>	1920	<b>mg/m3</b>	1000	

### PROPANE:

<b>TLV-TWA</b>	: -	<b>mg/m3</b>	2500	<b>ppm</b>
<b>MAK</b>	: 1800	<b>mg/m3</b>	1000	<b>ppm</b>

### ISOBUTANE:

<b>MAK</b>	: 2400	<b>mg/m3</b>	1000	<b>ppm</b>
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### NORFLURAN:

<b>OES-LTEL</b>	: 4240	<b>mg/m3</b>	1000	<b>ppm</b>
<b>MAK</b>	: 4200	<b>mg/m3</b>	1000	<b>ppm</b>
<b>MAC-TGG 8 h</b>	: 4200	<b>mg/m3</b>		

## 8.2 Exposure controls:

### 8.2.1 Occupational exposure controls:

Use only in well ventilated area

### 8.2.2 Environmental exposure controls: see heading 13

## 8.3 Personal protection:

### 8.3.1 respiratory protection:

In case of insufficient ventilation: respiratory protection with filter type A

### 8.3.2 hand protection:

Chemically resistant gloves

### 8.3.3 eye protection:

Safety glasses

### 8.3.4 skin protection:

Suitable protective clothing

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 General information:

Appearance (at 20°C)	: Aerosol
Odour	: Characteristic
Colour	: Variable in colour

### 9.2 Important health, safety and environmental information:

pH value	: N.D.
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Boiling point/boiling range	: N.D. °C
Flashpoint	: Contains extremely flammable components
Explosion limits	: N.D. Vol%
Vapour pressure (at 20°C)	: N.D. hPa
Vapour pressure (at 50°C)	: N.D. hPa
Relative density (at 20°C)	: N.D.
Water solubility	: Insoluble
Soluble in	: Organic solvents
Relative vapour density	: N.D.
Viscosity (at 20°C)	: N.D. Pa.s
Partition coefficient n-octanol/water	: N.D.
Evaporation rate	
ratio to butyl acetate	: N.D.
ratio to ether	: N.D.

### 9.3 Other information:

Melting point/melting range	: N.D. °C
Auto-ignition point	: N.D. °C
Saturation concentration	: N.D. g/m <sup>3</sup>

## 10. STABILITY AND REACTIVITY

### 10.1 Conditions to avoid/reactivity:

Unstable on exposure to heat

### 10.2 Materials to avoid:

Keep away from: heat sources, ignition sources, acids, bases.

### 10.3 Hazardous decomposition products:

On burning: release of toxic and corrosive gases/vapours: phosphorus oxides, nitrous vapours, hydrogen chloride, hydrogen fluoride, carbon monoxide and carbon dioxide and formation of small quantities of Hydrobromic acid – reacts violently with (some) acids/bases.

On heating: release of toxic/combustible gases/vapours (hydrogen cyanide).

May polymerize on exposure to temperature rise.

May polymerize with a lot of compounds, o.a.: (strong) bases and amines.

Reacts violently with (some) acids/bases.

## 11. TOXICOLOGICAL INFORMATION

**11.1 Routes of exposure:** inhalation, eyes and skin

**11.2 Acute effects/symptoms (upon overexposure):**

### AFTER INHALATION:

Dry/sore throat, Coughing, Irritation of the respiratory tract, Irritation of the nasal mucous membranes, Runny nose.

FOLLOWING SYMPTOMS MAY APPEAR LATER:

Inflammation of the respiratory tract, Risk of lung oedema, Respiratory difficulties.

### AFTER SKIN CONTACT:

Tingling/irritation of the skin

### AFTER INGESTION

Irritation of the gastric/intestinal mucosa, Inhibition of enzyme production

### AFTER EYE CONTACT:

Irritation of the eye tissue, Lacrimation.

### 11.3 Chronic effects:

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May cause sensitization by skin contact, May cause sensitization by inhalation, Contains substance with uncertain carcinogenic properties (polymethylenepolyphenylisocyanate)

Contains substance with uncertain teratogenic properties (norfluran)

**ON CONTINUOUS EXPOSURE/CONTACT:**

Body temperature rise, Tremor, Feeling of weakness, Headache, Skin, rash/inflammation, May stain the skin, Dry skin, Risk of pneumonia.

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### 12. ECOLOGICAL INFORMATION

#### 12.1 Ecotoxicity:

**tris(2-CHLORINE-1-METHYLETHYL)PHOSPHATE:**

LC50 (96 h)	: 56.2 mg/l	(BRACHYDANIO RERIO)
EC50 (48 h)	: 65/335 mg/l	(DAPHNIA MAGNA)
EC50 (96 h)	: 57/97 mg/l	(SELENASTRUMCAPRICORNUTUM)

#### 12.2 Mobility:

**Volatile organic compounds (VOC):** 16 %

Insoluble in water

For other physicochemical properties see section 9

#### 12.3 Persistence and degradability:

<b>Biodegradation BOD5 :</b>	N.D.	<b>% ThOD</b>
<b>water</b>	:	No data available
<b>soil</b>	:	T ½ N.D. <b>days</b>

#### 12.4 Bioaccumulative potential:

**log Pow** : N.D.

**BCF** : N.D.

#### 12.5 Other adverse effects:

**WGK** : - (classification in compliance with Verwaltungsvorschrift wassergefährdender Stoffe (VwVwS) of 17 May 1999)

**Effect on the ozone layer** : Not dangerous for the ozone layer (1999/45/EC)

**Greenhouse effect** : No data available

**Effect on waste water purification** : No data available

### 13. DISPOSAL CONSIDERATIONS

#### 13.1 Provisions relating to waste:

Waste material code (91/689/EEC, Council Decision 2001/118/EC, O.J. L47 of 16/2/2001): 08 05 01 (waste isocyanates)

Waste material code (Flanders): 015; 651

Hazardous waste (91/689/EEC)

#### 13.2 Disposal methods:

Specific treatment, Do not discharge into surface water/ drains or the environment.

#### 13.3 Packaging:

Waste material code packaging (91/689/EEC, Council Decision 2001/118/EC, O.J. L47 of 16/2/2001): 15 01 10 (packaging containing residues of or contaminated by dangerous substances)

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### 14. TRANSPORT INFORMATION

#### 14.1 Classification of the substance in compliance with UN Recommendations

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UN number : 1950  
CLASS : 2.1  
SUB RISKS :-  
PACKING :-  
PROPER SHIPPING NAME : UN 1950, Aerosols  
14.2 ADR (transport by road)  
CLASS : 2  
CLASSIFICATION CODE : 5 A  
DANGER LABEL TANKS :-  
DANGER LABEL PACKAGES : 2.2  
14.3 RID (transport by rail)  
CLASS : 2  
CLASSIFICATION CODE : 5 A  
DANGER LABEL TANKS :-  
DANGER LABEL PACKAGES : 2.2  
14.4 ADNR (transport by inland waterways)  
CLASS : 2  
CLASSIFICATION CODE : 5 A  
DANGER LABEL TANKS :-  
DANGER LABEL PACKAGES : 2.2  
14.5 IMDG (maritime transport)  
CLASS : 2.1  
SUB RISKS :-  
PACKING :-  
MFAG :-  
EMS : 2-13 – F-D, S-U  
Marine pollutant :-  
14.6 ICAO (air transport)  
CLASS : 2.1  
SUB RISKS :-  
PACKING :-  
PACKING INSTRUCTIONS PASSENGER AIRCRAFT : 203/Y203  
PACKING INSTRUCTIONS CARGO AIRCRAFT : 203  
14.7 Special precautions in connection with transport : None

## 14.8 Limited quantities (LQ) :

When substances and their packaging meet the conditions established by ADR/RID/ADNR in chapter 3.4, **only** the following prescriptions shall be complied with: each package shall display a diamond-shaped figure with the following inscription:  
'UN 1950' or, in the case of different goods with different identification numbers within a single package: the letters 'LQ'

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## Labelling in accordance with EC directives 67/548/EEC and 1999/45/EC (\*\*:see heading 16)

Contains : polymethylenepolyphenylisocyanate  
R20 : Harmful by inhalation  
R36/37/38 : Irritating to eyes, respiratory system and skin  
R42/43 : May cause sensitization by inhalation and skin contact

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- S23 : Do not breathe spray  
S36/37/39 : Wear suitable protective clothing gloves, and eye/face protection  
S38 : In case of insufficient ventilation, wear respiratory equipment  
S45 : In case of accident or if you feel unwell, seek medical advice (show the label where possible)

Keep away from sources of ignition - No smoking  
Keep out of reach of children  
Pressurized container. Protect from sunlight and do not expose to temperatures exceeding 50°C  
Do not pierce or burn after use  
Do not spray on a naked flame or any incandescent material  
Contains isocyanates. See information supplied by the manufacturer  
Harmful Extremely flammable

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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.

**N.A.** = NOT APPLICABLE

**N.D.** = NOT DETERMINED

\* = INTERNAL CLASSIFICATION

### (\*\*) Labelling:

The labelling of the substance described in this MSDS complies with the provisions of Directive 1999/45/EC of 31 May 1999, published in the Official Journal of the European Communities L 200 of 30/07/1999. This Directive replaces Directive 88/379/EEC of 7 June 1988, published in the Official Journal of the European Communities L 187 of 16/07/1988.

Member States shall apply the laws, regulations and administrative provisions referred to in article 22 of this Directive:

(a) to preparations not within the scope of Directive 91/414/EEC or Directive 98/8/EC as from 30 July 2002; and

(b) to preparations within the scope of Directive 91/414/EEC or Directive 98/8/EC as from 30 July 2004.

### Full text of any R-phrases referred to under heading 2:

- R12 : Extremely flammable  
R20 : Harmful by inhalation  
R22 : Harmful if Swallowed  
R36/37/38 : Irritating to eyes, respiratory system and skin  
R42/43 : May cause sensitization by inhalation and skin contact  
R52/53 : Harmful to aquatic organisms; may cause long-term adverse effects in the aquatic environment

### Exposure limits:

- TLV** : Threshold Limit Value - ACGIH US 2002  
**OES** : Occupational Exposure Standards - United Kingdom 1999  
**MEL** : Maximum Exposure Limits - United Kingdom 1999

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**MAK** : Maximale Arbeitsplatzkonzentrationen - Germany 2001  
**TRK** : Technische Richtkonzentrationen - Germany 2001  
**MAC** : Maximale aanvaarde concentratie - the Netherlands 2002  
**VME** : Valeurs limites de Moyenne d'Exposition - France 1999  
**VLE** : Valeurs limites d'Exposition à court terme - France 1999  
**GWBB** : Grenswaarde beroepsmatige blootstelling - Belgium 2002  
**GWK** : Grenswaarde kortstondige blootstelling - Belgium 2002  
**EC** : Indicative occupational exposure limit values - directive 2000/39/EC  
**I** : Inhalable fraction = **T** : Total dust = **E** : Einatembarer Aerosolanteil  
**R** : Respirable fraction = **A** : Alveolengängiger Aerosolanteil/Alveolar dust  
**C** : Ceiling limit  
**a**: aerosol **r**: rook/Rauch (fume)  
**d**: damp (vapour) **st**: stof/Staub (dust)  
**du**: dust **ve**: vezel (fibre)  
**fa**: Faser (fibre) **va**: vapour  
**fi**: fibre **om**: oil mist  
**fu**: fume **on**: olienevel/Ölnebel (oil mist)  
**p**: poussière (dust) **part**: particles  
**Chronic toxicity**:  
**K** : List of the carcinogenic substances and processes - The Netherlands 2002