

# Safety data sheet

## according to 1907/2006/EC, Annex II

F cyg&lt;"462904236".....Tgr megu&lt;"342604235".....Tgh&lt;"249704" F IF N"

## SECTION 1: Identification of the substance/mixture and of the company/undertaking

### 1.1 Product identifier

• **Trade name:** Foam Hand Held B1

### 1.2 Relevant identified uses of the substance or mixture and uses advised against

No further relevant information available.

· **Application of the substance / the mixture**

Foaming at constructional elements requiring advanced fire security standards, foaming in thermal insulation composite systems between EPS heat insulation panels, gaps of maximum 70 x 20 mm (depth x width), covered with mineral plaster, ideal construction and insulation foam for filling and sealing of cavities between brick work and window frames, window sills, roller blinds chassis etc., insulating of pipeline mountings

### 1.3 Details of the supplier of the safety data sheet

• **Manufacturer/Supplier:**

Siroflex Limited

Dodworth Business Park, Dodworth,

Barnsley, South Yorkshire, S75 3SP

Tel: 01226 771600 Fax: 01226 771601

info@siroflex.co.uk    www.siroflex.co.uk

**1.4 Emergency telephone number:** Tel. 01226 771600 (Office Hours Only)

## SECTION 2: Hazards identification

## 2.1 Classification of the substance or mixture

**Classification according to Regulation (EC) No 1272/2008**



GHS02 flame

Flam. Aerosol 1 H222-H229 Extremely flammable aerosol. Pressurised container: May burst if heated.



GHS08 health hazard

Resp. Sens. 1	H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
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Carc. 2	H351	Suspected of causing cancer.
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STOT RE 2	H373	May cause damage to organs through prolonged or repeated exposure.
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GHS07

Acute Tox. 4      H332      Harmful if inhaled.

Skin Irrit. 2	H315	Causes skin irritation.
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Eye Irrit. 2	H319	Causes serious eye irritation.
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Skin Sens. 1	H317	May cause an allergic skin reaction.
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STOT SE 3      H335      May cause respiratory irritation.

**Classification according to Directive 67/548/EEC or Directive 1999/45/EC**



Xn; Harmful

R20-40-48/20: Harmful by inhalation. Limited evidence of a carcinogenic effect. Harmful: danger of serious damage to health by prolonged exposure through inhalation.



Xn; Sensitising

R42/43: May cause sensitisation by inhalation and skin contact.



Xi; Irritant

R36/37/38: Irritating to eyes, respiratory system and skin.

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• **Additional information:**

Contains isocyanates. May produce an allergic reaction.

Pressurized 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.

Buildup of explosive mixtures possible without sufficient ventilation.

### 2.3 Other hazards

### Results of PBT and vPvB assessment

• **PBT:** Not applicable.


















• **vPvB:** Not applicable.

### SECTION 3: Composition/information on ingredients

### 3.2 Chemical characterization: Mixtures

· **Description:** Mixture of substances listed below with nonhazardous additions.

- **Dangerous components:**

CAS: 9016-87-9 Reg.nr.: 01-2119457024-46-xxxx	diphenylmethanediisocyanate, isomers and homologues  Xn R20-40-48/20;  Xn R42/43;  Xi R36/37/38 Carc. Cat. 3  Resp. Sens. 1, H334; Carc. 2, H351; STOT RE 2, H373;  Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317; STOT SE 3, H335	25-50%
CAS: 13674-84-5 EINECS: 237-158-7 Reg.nr.: 01-2119486772-26-xxxx	tris(2-chlorisopropyl)-phosphate  Xn R22	< 25%
CAS: 115-10-6 EINECS: 204-065-8 Index number: 603-019-00-8 Reg.nr.: 01-2119472128-37-xxxx	dimethyl ether  F+ R12  Flam. Gas 1, H220;  Press. Gas, H280	3-<10%
CAS: 75-28-5 EINECS: 200-857-2 Index number: 601-004-00-0	isobutane  F+ R12  Flam. Gas 1, H220;  Press. Gas, H280	3-<10%
CAS: 36483-57-5 EINECS: 253-057-0	Tribromneopentylalkohol  Xi R36  Eye Irrit. 2, H319	1-≤2.5%
CAS: 74-98-6 EINECS: 200-827-9 Index number: 601-003-00-5	propane  F+ R12  Flam. Gas 1, H220;  Press. Gas, H280	1-≤2.5%

· **Additional information:** For the wording of the listed risk phrases refer to section 16.

## SECTION 4: First aid measures

#### 4.1 Description of first aid measures

**General information:**

Position and transport stably in side position. Keep patient warm.

Immediately remove any clothing soiled by the product.

• **After inhalation:**

Take affected persons into fresh air and keep quiet.

Supply fresh air and to be sure call for a doctor.

In case of unconsciousness place patient stably in side position for transportation. Keep patient warm.

• **After skin contact:** If skin irritation continues, consult a doctor.

- **After eye contact:**

Rinse opened eye for several minutes under running water. Remove contact lenses, if present and easy to do. Continue rinsing. Then consult a doctor.

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- **After swallowing:**
  - Call a doctor immediately.
  - Rinse out mouth and then drink plenty of water if person is conscious.
- **4.2 Most important symptoms and effects, both acute and delayed**
  - Headache. Breathlessness and cough. Irritation of nose and throat
  - skin dehydration and decoloration
  - skin decoloration
  - Effect on central nervous system. Further hazardous properties can not be excluded. Exposure can result in time-delayed symptoms.
  - Asthma. In case of sensitization concentrations well below the OEL value can result in symptoms of asthma.
- **4.3 Indication of any immediate medical attention and special treatment needed**
  - No further relevant information available.

## SECTION 5: Firefighting measures

- **5.1 Extinguishing media**
- **Suitable extinguishing agents:** CO<sub>2</sub>, powder or water spray. Fight larger fires with water spray.
- **For safety reasons unsuitable extinguishing agents:** Water with full jet
- **5.2 Special hazards arising from the substance or mixture**  
Can form explosive gas-air mixtures.  
Formation of toxic gases is possible during heating or in case of fire: CO, NO<sub>x</sub>, hydrogen chloride, isocyanate vapour and traces of hydrogen cyanide.  
In case of fire, the following can be released:  
Nitrogen oxides (NO<sub>x</sub>)  
Carbon monoxide (CO)  
Hydrogen chloride (HCl)  
Hydrogen cyanide (HCN) (traces)
- **5.3 Advice for firefighters**
- **Protective equipment:** Wear self-contained respiratory protective device.
- **Additional information**  
Cool endangered receptacles with water spray and remove it out of emergency area if possible.  
Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

## SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures**
  - Wear protective equipment. Keep unprotected persons away. Do not flush with water or aqueous cleansing agents.
  - Ensure adequate ventilation.
  - Keep away from ignition sources.
- **6.2 Environmental precautions:**
  - Do not allow product to reach sewage system or any water course.
  - Inform respective authorities in case of seepage into water course or sewage system.
- **6.3 Methods and material for containment and cleaning up:**
  - Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
  - Clean the affected area carefully; suitable cleaner is acetone.
  - Foamed out fresh material should be wetted or covered with moisture absorbing materials (sand, wood shavings, absorbing chemicals) for curing
- **6.4 Reference to other sections**
  - See Section 7 for information on safe handling.
  - See Section 8 for information on personal protection equipment.
  - See Section 13 for disposal information.

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## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

Ensure good ventilation/exhaustion at the workplace. Open and handle receptacle with care.  
Open and handle receptacle with care.

· **Information about fire - and explosion protection:**

Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50 °C, i.e. electric lights. Do not pierce or burn, even after use.

Do not spray onto a naked flame or any incandescent material.

## 7.2 Conditions for safe storage, including any incompatibilities

• **Storage:**

· **Requirements to be met by storerooms and receptacles:**

Store in a cool location under dry conditions in well sealed receptacles

Store only in the original receptacle.

Observe official regulations on storing packagings with pressurized containers.

· **Information about storage in one common storage facility:** Not required.

**Further information about storage conditions:**

Keep container tightly sealed. Store in dry conditions. Keep away from temperatures below 5°C and above 25°C. Protect from heat and direct sunlight.

Store in a cool place. Heat will increase pressure and may lead to the receptacle bursting.

## SECTION 8: Exposure controls/personal protection

· **Additional information about design of technical facilities:** No further data; see item 7.

### 8.1 Control parameters

**Ingredients with limit values that require monitoring at the workplace:**

**9016-87-9 diphenylmethanediisocyanate, isomeres and homologues**

WEL	Short-term value: 0.07 mg/m <sup>3</sup> Long-term value: 0.02 mg/m <sup>3</sup> Sen; as -NCO
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**115-10-6 dimethyl ether**

WEL	Short-term value: 958 mg/m <sup>3</sup> , 500 ppm Long-term value: 766 mg/m <sup>3</sup> , 400 ppm
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## • DNELs

**13674-84-5 tris(2-chlorisopropyl)-phosphate**

Dermal	wrks, long, system	2.08 mg/kg/d (mouse)
	wrks, short, system	8.0 mg/kg bw/d (mouse)
Inhalative	wrks, long, system	5.82 mg/m <sup>3</sup> (mouse)
	wrks, short, system	22.4 mg/m <sup>3</sup> (rat)

**115-10-6 dimethyl ether**

Inhalative	cstm, long, system	497 mg/m <sup>3</sup> (rat)
	wrks, long, system	1894 mg/m <sup>3</sup> (rabbit)

• PNECs

**13674-84-5 tris(2-chlorisopropyl)-phosphate**

Oral	fresh water	0.064 mg/l (daphnia)
	STP	7.84 mg/l (daphnia)
	marine water	0.064 mg/l (daphnia)
	sediment (fresh water)	13.4 mg/(kg dw) (daphnia)

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	sediment (marine water)	1.34 mg/(kg bw) (daphnia)
	soil	1.7 mg/(kg dw) (daphnia)
<b>115-10-6 dimethyl ether</b>		
Oral	fresh water	0.155 mg/l (daphnia)
	STP	160.0 mg/l (daphnia)
	intermittent release	1.549 mg/l (daphnia)
	marine water	0.016 mg/l (daphnia)
	sediment (fresh water)	0.681 mg/(kg dw) (daphnia)
	sediment (marine water)	0.069 mg/(kg bw) (daphnia)
	soil	0.045 mg/(kg dw) (daphnia)

- **Additional information:** The lists valid during the making were used as basis.
- **8.2 Exposure controls**
- **Personal protective equipment:**
- **General protective and hygienic measures:**
  - Keep away from foodstuffs, beverages and feed.
  - Immediately remove all soiled and contaminated clothing
  - Wash hands before breaks and at the end of work.
  - Do not inhale gases / fumes / aerosols.
  - Avoid contact with the eyes and skin.
- **Respiratory protection:**
  - Not necessary if room is well-ventilated.
  - In case of brief exposure or low pollution use respiratory filter device, e.g. EN 14387 type ABEK). In case of intensive or longer exposure use self-contained respiratory protective device. Respiratory protective equipment (RPE) should not be needed for routine tasks. Keep any RPE clean, and replace at recommended intervals.
  - Biological monitoring by urine testing is recommended to assess exposure to isocyanate and the effectiveness of controls such as RPE and safe working procedures. This means taking samples of urine once or twice a year of workers that may have breathed in spray or vapour, and from unprotected workers nearby. Urine samples should be collected immediately the task has finished.
  - Short term filter device:
    - Filter AX
- **Protection of hands:**
  - Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation.
  - Protective gloves
    - The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
    - Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.
- **Material of gloves**
  - Recommended thickness of the material:  $\geq 0.5$  mm
  - The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.
  - Nitrile rubber, NBR
- **Penetration time of glove material**
  - The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
- **Eye protection:** Tightly sealed goggles
- **Body protection:** Protective work clothing

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Hydrogen chloride (HCl)  
Carbon monoxide and carbon dioxide  
Nitrogen oxides (NO<sub>x</sub>)

### SECTION 11: Toxicological information

#### 11.1 Information on toxicological effects

##### Acute toxicity:

##### LD/LC50 values relevant for classification:

##### 9016-87-9 diphenylmethanediisocyanate, isomers and homologues

Oral	LD50	>5000 mg/kg (rat)
Dermal	LD50	>5000 mg/kg (rabbit)
Inhalative	LC50/4 h	0.49 mg/l (rat)

##### 13674-84-5 tris(2-chlorisopropyl)-phosphate

Oral	LD50	3600 mg/kg (rat)
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##### 115-10-6 dimethyl ether

Inhalative	LC50/4 h	308 mg/l (rat)
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##### Primary irritant effect:

• **on the skin:** Irritant to skin and mucous membranes.

• **on the eye:** Irritating effect.

##### Sensitization:

Sensitization possible through inhalation or skin contact.

Sensitization possible through skin contact.

##### Additional toxicological information:

The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version:

Harmful

Irritant

##### CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

Carc. 2

### SECTION 12: Ecological information

• **12.2 Persistence and degradability** No further relevant information available.

• **12.3 Bioaccumulative potential** No further relevant information available.

• **12.4 Mobility in soil** No further relevant information available.

##### Additional ecological information:

##### General notes:

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water

Do not allow product to reach ground water, water course or sewage system, even in small quantities.

##### 12.5 Results of PBT and vPvB assessment

• **PBT:** Not applicable.

• **vPvB:** Not applicable.

• **12.6 Other adverse effects** No further relevant information available.

### SECTION 13: Disposal considerations

#### 13.1 Waste treatment methods

##### Recommendation

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

Taking back and recycling of empty cans free of charge in Germany:

PDR Recycling GmbH & Co. KG (PDR)

Am-Alten-Sägewerk 3

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D-95349 Thurnau  
FreeCall:  
Tel. 0800-7 83 67 36  
Fax 0800-7 83 67 37

**· European waste catalogue**

08 00 00	WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS
08 05 00	wastes not otherwise specified in 08
08 05 01*	waste isocyanates
16 00 00	WASTES NOT OTHERWISE SPECIFIED IN THE LIST
16 05 00	gases in pressure containers and discarded chemicals
16 05 04*	gases in pressure containers (including halons) containing dangerous substances
17 00 00	CONSTRUCTION AND DEMOLITION WASTES (INCLUDING EXCAVATED SOIL FROM CONTAMINATED SITES)
17 06 00	insulation materials and asbestos-containing construction materials
17 06 04	insulation materials other than those mentioned in 17 06 01 and 17 06 03

**· Uncleaned packaging:****· Recommendation:** Disposal must be made according to official regulations.

### SECTION 14: Transport information

**· 14.1 UN-Number****· ADR, IMDG, IATA** UN1950**· 14.2 UN proper shipping name**

**· ADR** 1950 AEROSOLS  
**· IMDG** AEROSOLS  
**· IATA** AEROSOLS, flammable

**· 14.3 Transport hazard class(es)****· ADR**

**· Class** 2 5F Gases.  
**· Label** 2.1

**· IMDG, IATA**

**· Class** 2.1  
**· Label** 2.1

**· 14.4 Packing group****· ADR, IMDG, IATA** Void**· 14.5 Environmental hazards:****· Marine pollutant:** No**· 14.6 Special precautions for user****· Danger code (Kemler):** Warning: Gases.  
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- |   |                       |
|---|-----------------------|
| <b>· EMS Number:</b>  | F-D,S-U               |
| <b>· 14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</b> | Not applicable.       |
| <b>· Transport/Additional information:</b>  |                       |
| <b>· ADR</b>  |                       |
| · Limited quantities (LQ)   | 1L                    |
| · Transport category  | 2                     |
| · Tunnel restriction code   | D                     |
| <b>· UN "Model Regulation":</b>   | UN1950, AEROSOLS, 2.1 |

### SECTION 15: Regulatory information

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **National regulations:**
- **Information about limitation of use:**  
Employment restrictions concerning juveniles must be observed.  
Employment restrictions concerning pregnant and lactating women must be observed.
- **Technical instructions (air):**

Class	Share in %
I	25-50
NK	1-≤2.5

- **Waterhazard class:** Water hazard class 1 (Self-assessment): slightly hazardous for water.
- **Other regulations, limitations and prohibitive regulations**  
Persons already sensitised to diisocyanates may develop allergic reactions when using this product. Persons suffering from asthma, eczema or skin problems should avoid contact, including dermal contact, with this product. This product should not be used under conditions of poor ventilation unless a protective mask with an appropriate gas filter (i.e. type A1 according to standard EN 14387) is used.
- **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

### SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- **Relevant phrases**
- H220 Extremely flammable gas.
- H280 Contains gas under pressure; may explode if heated.
- H315 Causes skin irritation.
- H317 May cause an allergic skin reaction.
- H319 Causes serious eye irritation.
- H332 Harmful if inhaled.
- H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
- H335 May cause respiratory irritation.
- H351 Suspected of causing cancer.
- H373 May cause damage to organs through prolonged or repeated exposure.
- R12 Extremely flammable.
- R20 Harmful by inhalation.
- R22 Harmful if swallowed.
- R36 Irritating to eyes.
- R36/37/38 Irritating to eyes, respiratory system and skin.
- R40 Limited evidence of a carcinogenic effect.

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R42/43 May cause sensitisation by inhalation and skin contact.

R48/20 Harmful: danger of serious damage to health by prolonged exposure through inhalation.

**Abbreviations and acronyms:**

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

ICAO: International Civil Aviation Organization

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

VOCV: Lenkungsabgabe auf flüchtigen organischen Verbindungen, Schweiz (Swiss Ordinance on volatile organic compounds)

VOC: Volatile Organic Compounds (USA, EU)

DNEL: Derived No-Effect Level (REACH)

PNEC: Predicted No-Effect Concentration (REACH)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

Flam. Gas 1: Flammable gases, Hazard Category 1

Flam. Aerosol 1: Flammable aerosols, Hazard Category 1

Press. Gas: Gases under pressure: Compressed gas

Acute Tox. 4: Acute toxicity, Hazard Category 4

Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2

Eye Irrit. 2: Serious eye damage/eye irritation, Hazard Category 2

Resp. Sens. 1: Sensitisation - Respirat., Hazard Category 1

Skin Sens. 1: Sensitisation - Skin, Hazard Category 1

Carc. 2: Carcinogenicity, Hazard Category 2

STOT SE 3: Specific target organ toxicity - Single exposure, Hazard Category 3

STOT RE 2: Specific target organ toxicity - Repeated exposure, Hazard Category 2

\* **Data compared to the previous version altered.**

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