

Safety Data Sheet
according to 1907/2006/EC, Article 31

Date: 08.11.2010

Replaces: 30.06.2009

Ref: 0045.8.A/DR

Page 1 of 7

1 Identification of the substance/preparation and of the company/undertaking

- **Product details**
- **Trade name:** *SX Hand Held Foam*
- **Article number:** 8404
- **Application of the substance / the preparation** Sealant
- **Manufacturer/Supplier:**
SIROFLEX LIMITED
Dodworth Business Park, Dodworth,
Barnsley, South Yorkshire, England, S75 3SP
Tel.: 01226 771600
Fax.: 01226 771601
- **Further information obtainable from:**
www.siroflex.co.uk
info@siroflex.co.uk
- **Information in case of emergency:** 01226 771600

2 Hazards identification

- **Hazard description:**



Xn Harmful
F+ Extremely flammable

- **Information concerning particular hazards for human and environment:**

The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.

R 12 Extremely flammable.

R 20 Harmful by inhalation.

R 36/37/38 Irritating to eyes, respiratory system and skin.

R 40 Limited evidence of a carcinogenic effect.

R 42/43 May cause sensitisation by inhalation and skin contact.

R 48/20 Harmful: danger of serious damage to health by prolonged exposure through inhalation.

Contains isocyanates. See information supplied by the manufacturer

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.

Buildup of explosive mixtures possible without sufficient ventilation.

Keep out of the reach of children

- **Classification system:**

The classification is according to the latest editions of the EU-lists, and extended by company and literature data.

3 Composition/information on ingredients

- **Chemical characterization**
- **Description:** Mixture of substances listed below with nonhazardous additions.

- **Dangerous components:**

| | | |
|------------------------------------|---|---------|
| CAS: 9016-87-9 | diphenylmethanediisocyanate, isomeres and homologues Xn, Xi; R 20-36/37/38-40-42/43-48/20 | 25-50% |
| CAS: 75-28-5 EINECS: 200-857-2 | isobutane F+; R 12 | 2.5-10% |
| CAS: 115-10-6 EINECS: 204-065-8 | dimethyl ether F+; R 12 | 2.5-10% |

(Contd. on page 2)

Safety Data Sheet
according to 1907/2006/EC, Article 31

Date: 08.11.2010



Replaces: 30.06.2009

Ref: 0045.8.A/DR

Page 2 of 7

Trade name: SX Hand Held Foam

(Contd. of page 1)

| | | |
|------------------------------------|---|---------|
| CAS: 74-98-6 EINECS: 200-827-9 | propane  F+; R 12 | 2.5-10% |
| CAS: 106-97-8 EINECS: 203-448-7 | butane  F+; R 12 | ≤ 2.5% |

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

4 First aid measures

· **General information:**

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

· **After inhalation:**

Supply fresh air; consult doctor in case of complaints.

Take affected persons into fresh air and keep quiet.

· **After skin contact:**

Immediately wash with water and soap and rinse thoroughly.

If skin irritation continues, consult a doctor.

Immediately remove any clothing soiled by the product.

· **After eye contact:**

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

· **After swallowing:** Do not induce vomiting; call for medical help immediately.

5 Fire-fighting measures

· **Suitable extinguishing agents:**

Water spray

Foam

Fire-extinguishing powder

Carbon dioxide

· **For safety reasons unsuitable extinguishing agents:** Water with full jet

· **Special hazards caused by the substance, its products of combustion or resulting gases:**

Can form explosive gas-air mixtures.

Formation of toxic gases is possible during heating or in case of fire.

Nitrogen oxides (NO_x)

Hydrogen chloride (HCl)

Hydrogen cyanide (HCN)

Carbon monoxide and carbon dioxide

· **Protective equipment:** Wear self-contained respiratory protective device.

· **Additional information**

Cool endangered receptacles with water spray.

Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

6 Accidental release measures

· **Person-related safety precautions:**

Wear protective equipment. Keep unprotected persons away.

Ensure adequate ventilation

Keep away from ignition sources.

· **Measures for environmental protection:**

Inform respective authorities in case of seepage into water course or sewage system.

Do not allow to enter sewers/ surface or ground water.

· **Measures for cleaning/collecting:**

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Dispose contaminated material as waste according to item 13.

Ensure adequate ventilation.

(Contd. on page 3)

Safety Data Sheet
according to 1907/2006/EC, Article 31

Date: 08.11.2010

Replaces: 30.06.2009

Ref: 0045.8.A/DR

Page 3 of 7

Trade name: SX Hand Held Foam

(Contd. of page 2)

· **Additional information:** See Section 13 for disposal information.

7 Handling and storage

· **Handling:**

· **Information for safe handling:**

Ensure good ventilation/exhaustion at the workplace.

Avoid contact with skin and eyes.

· **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.

· **Storage:**

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

Store in a cool location.

Observe official regulations on storing packagings with pressurized containers.

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

· **Further information about storage conditions:** Protect from heat and direct sunlight.

8 Exposure controls/personal protection

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

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

9016-87-9 diphenylmethanediisocyanate, isomeres and homologues

WEL Short-term value: 0.07 mg/m³

Long-term value: 0.02 mg/m³

Sen; as -NCO

115-10-6 dimethyl ether

WEL Short-term value: 958 mg/m³, 500 ppm

Long-term value: 766 mg/m³, 400 ppm

106-97-8 butane

WEL Short-term value: 1810 mg/m³, 750 ppm

Long-term value: 1450 mg/m³, 600 ppm

Carc (if more than 0.1% of buta-1.3-diene)

· **Additional information:** The lists valid during the making were used as basis.

· **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:**

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

· **Recommended filter device for short term use:** Filter AX

· **Protection of hands:**



Protective gloves

(Contd. on page 4)

Safety Data Sheet
according to 1907/2006/EC, Article 31

Date: 08.11.2010

Replaces: 30.06.2009

Ref: 0045.8.A/DR

Page 4 of 7

Trade name: SX Hand Held Foam

(Contd. of page 3)

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

· **Material of gloves**

Butyl rubber, BR

Recommended thickness of the material: ≥ 0.7 mm

· **Penetration time of glove material**

≥ 60 min

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

9 Physical and chemical properties

· **General Information**

Form: Aerosol
Colour: Various colours
Odour: Product specific

· **Change in condition**

Melting point/Melting range: Undetermined.
Boiling point/Boiling range: Not applicable, as aerosol.

· **Flash point:** Not applicable, as aerosol.

· **Ignition temperature:** $>200^{\circ}\text{C}$

· **Danger of explosion:** Product is not explosive. However, formation of explosive air/vapour mixtures are possible.

· **Density at 20°C:** 0.98731 g/cm^3

· **Solubility in / Miscibility with**

water: Not miscible or difficult to mix.
Organic solvents: 17.4 %

10 Stability and reactivity

· **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.

· **Materials to be avoided:**

· **Dangerous reactions** Reacts with alkali, amines and strong acids.

· **Dangerous decomposition products:**

Hydrogen chloride (HCl)

Hydrogen cyanide (prussic acid)

Carbon monoxide and carbon dioxide

Nitrogen oxides (NOx)

11 Toxicological information

· **Acute toxicity:**

· **LD/LC50 values relevant for classification:**

9016-87-9 diphenylmethanediisocyanate, isomeres and homologues

| | | |
|------|------|-----------------------------|
| Oral | LD50 | $>5000 \text{ mg/kg}$ (rat) |
|------|------|-----------------------------|

(Contd. on page 5)

Safety Data Sheet
according to 1907/2006/EC, Article 31

Date: 08.11.2010

Replaces: 30.06.2009

Ref: 0045.8.A/DR

Page 5 of 7

Trade name: SX Hand Held Foam

(Contd. of page 4)

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

- **Primary irritant effect:**
- **on the skin:** Irritant to skin and mucous membranes.
- **on the eye:** Irritating effect.
- **Sensitization:**
 - Sensitization possible through inhalation.
 - 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
Vapours have narcotic effect.
Inhalation of concentrated vapours as well as oral intake will lead to anaesthesia-like conditions and headache, dizziness, etc.
- **Sensitisation** May cause sensitisation by inhalation and skin contact.

12 Ecological information

- **Additional ecological information:**
- **General notes:**

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

13 Disposal considerations

- **Product:**
- **Recommendation**

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

- **European waste catalogue**

| | |
|----------|---|
| 16 05 04 | gases in pressure containers (including halons) containing dangerous substances |
| 08 05 01 | waste isocyanates |
| 15 01 10 | packaging containing residues of or contaminated by dangerous substances |

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

14 Transport information

- **Land transport ADR/RID (cross-border)**



- **ADR/RID class:** 2 5F Gases.
- **Danger code (Kemler):** -
- **UN-Number:** 1950
- **Packaging group:** -
- **Hazard label:** 2.1
- **Description of goods:** 1950 AEROSOLS
- **Limited quantities (LQ) LQ2**

(Contd. on page 6)

Safety Data Sheet
according to 1907/2006/EC, Article 31

Date: 08.11.2010

Replaces: 30.06.2009

Ref: 0045.8.A/DR

Page 6 of 7

Trade name: SX Hand Held Foam

(Contd. of page 5)

- **Transport category** 2
- **Tunnel restriction code** D

· **Maritime transport IMDG:**



- **IMDG Class:** 2.1
- **UN Number:** 1950
- **Label** 2.1
- **Packaging group:** -
- **EMS Number:** F-D,S-U
- **Marine pollutant:** No
- **Proper shipping name:** AEROSOLS

· **Air transport ICAO-TI and IATA-DGR:**



- **ICAO/IATA Class:** 2.1
- **UN/ID Number:** 1950
- **Label** 2.1
- **Packaging group:** -
- **Proper shipping name:** AEROSOLS, flammable

15 Regulatory information

· **Labelling according to EU guidelines:**

The product has been classified and marked in accordance with EU Directives / Ordinance on Hazardous Materials.

· **Code letter and hazard designation of product:**



Xn Harmful
F+ Extremely flammable

· **Hazard-determining components of labelling:**

diphenylmethanediisocyanate, isomeres and homologues

· **Risk phrases:**

- 12 Extremely flammable.
- 20 Harmful by inhalation.
- 36/37/38 Irritating to eyes, respiratory system and skin.
- 40 Limited evidence of a carcinogenic effect.
- 42/43 May cause sensitisation by inhalation and skin contact.
- 48/20 Harmful: danger of serious damage to health by prolonged exposure through inhalation.

· **Safety phrases:**

- 16 Keep away from sources of ignition - No smoking.
- 23 Do not breathe fumes/aerosol.
- 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
- 28 After contact with skin, wash immediately with plenty of water.
- 37/39 Wear suitable gloves and eye/face protection.
- 45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
- 51 Use only in well-ventilated areas.

(Contd. on page 7)

Safety Data Sheet
according to 1907/2006/EC, Article 31

Date: 08.11.2010

Replaces: 30.06.2009

Ref: 0045.8.A/DR

Page 7 of 7

Trade name: SX Hand Held Foam

(Contd. of page 6)

56 *Dispose of this material and its container to hazardous or special waste collection point.*

· **Special labelling of certain preparations:**

Contains isocyanates. See information supplied by the manufacturer

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.

Buildup of explosive mixtures possible without sufficient ventilation.

Keep out of the reach of children

· **Classification in accordance with Directive 75/324/EEC: Extremely flammable**

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 R-phrases**

12 *Extremely flammable.*

20 *Harmful by inhalation.*

36/37/38 *Irritating to eyes, respiratory system and skin.*

40 *Limited evidence of a carcinogenic effect.*

42/43 *May cause sensitisation by inhalation and skin contact.*

48/20 *Harmful: danger of serious damage to health by prolonged exposure through inhalation.*

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

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