

Date: 20.10.2015 Replaces: 08.10.2015 Ref: 0146.12.DBR/KG

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

· 1.1 Product identifier

Trade name: SX Gun Grade Foam

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

Filling of gaps in interior applications and cavities. For filling and isolation around window frames and doors.

- 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

· Further information obtainable from:

www.siroflex.co.uk info@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.
Carc. 2	H351	Suspected of causing cancer.
STOT RE 2	H373	May cause damage to organs through prolonged or repeated exposure.

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•		
Acute Tox. 4	H332	Harmful if inhaled.
Skin Irrit. 2	H315	Causes skin irritation.
Eye Irrit. 2	H319	Causes serious eye irritation.
Skin Sens. 1	H317	May cause an allergic skin reaction.
STOT SE 3	H335	May cause respiratory irritation.
Lact.	H362	May cause harm to breast-fed children.
		•
Aquatic Chronic 4	H413	May cause long lasting harmful effects to aquatic life.
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#### · 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.

\* F+; Extremely flammable

R12: Extremely flammable.

R53-64: May cause long-term adverse effects in the aquatic environment. May cause harm to breastfed

babies.

### · 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.

Warning! Pressurised container.

# · Classification system:

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

#### 2.2 Label elements

### · Labelling according to Regulation (EC) No 1272/2008

The product is classified and labelled according to the CLP regulation.

#### · Hazard pictograms







GHS02 GHS07 GHS08

### · Signal word Danger

#### Hazard-determining components of labelling:

diphenylmethanediisocyanate, isomers and homologues

#### Hazard statements

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

H332 Harmful if inhaled.

H315 Causes skin irritation.

H319 Causes serious eve irritation.

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

H317 May cause an allergic skin reaction.

H351 Suspected of causing cancer.

H362 May cause harm to breast-fed children.

H335 May cause respiratory irritation.

H373 May cause damage to organs through prolonged or repeated exposure.

H413 May cause long lasting harmful effects to aquatic life.

#### · Precautionary statements

P101 If medical advice is needed, have product container or label at hand.

P102 Keep out of reach of children.

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P103	Read label before use.
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P211	Do not spray on an open flame or other ignition source.
P251	Do not pierce or burn, even after use.
P260	Do not breathe dust/fume/gas/mist/vapours/spray.
P263	Avoid contact during pregnancy/while nursing.
P271	Use only outdoors or in a well-ventilated area.
P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P302+P352	IF ON SKIN: Wash with plenty of water.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305+P351+P35	38 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P410+P412	Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.
P501	Dispose of contents/container in accordance with local/regional/national/international regulations.
· Additional info	rmation.

#### **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 characterisation: Mixtures
- **Description:** Mixture of substances listed below with nonhazardous additions.

Dangerous components:		
CAS: 9016-87-9	diphenylmethanediisocyanate, isomers and homologues  Xn R20; Xn R42/43; Xi R36/37/38  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: 85535-85-9 EINECS: 287-477-0 Reg.nr.: 01-2119519269-33-xxxx	alkanes, C14-17, chloro N R50/53 R64-66 Aquatic Acute 1, H400; Aquatic Chronic 1, H410; Lact., H362	5-<20%
CAS: 75-28-5 EINECS: 200-857-2 Reg.nr.: 601-004-00-0	isobutane F+ R12 Flam. Gas 1, H220; Press. Gas C, H280	2.5-10%

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	(Co.	ntd. of page 3)
CAS: 115-10-6	dimethyl ether	2.5-10%
EINECS: 204-065-8	F+ R12	
Reg.nr.: 01-2119472128-37-xxxx	Flam. Gas 1, H220; Press. Gas C, H280	
CAS: 74-98-6	propane	2.5-10%
EINECS: 200-827-9	F+ R12	
Reg.nr.: 601-003-00-5	Flam. Gas 1, H220; Press. Gas C, H280	-

<sup>•</sup> 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:**

Personal protection for the First Aider.

Position and transport stably in side position.

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

#### · 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.

#### After skin contact:

Remove clothes and remove or scrape fresh foam carefully.

If skin irritation continues, consult a doctor.

Immediately wash with water and soap and rinse thoroughly.

#### · After eve contact:

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

- · After swallowing: Rinse out mouth and then drink plenty of water.
- 4.2 Most important symptoms and effects, both acute and delayed

Headache

Breathing difficulty

Coughing

Disziness

Allergic reactions

### · 4.3 Indication of any immediate medical attention and special treatment needed

Symptomatical treatment (decontamination, vital bodily function)

# **SECTION 5: Firefighting measures**

- 5.1 Extinguishing media
- Suitable extinguishing agents:

CO2, powder or water spray. Fight larger fires with water spray.

CO2, sand, extinguishing powder. Do not use water.

- · For safety reasons unsuitable extinguishing agents: Water with full jet
- 5.2 Special hazards arising from the substance or mixture

Carbon monoxide (CO)

Nitrogen oxides (NOx)

Hydrogen chloride (HCl)

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Hydrogen cyanide (HCN)

- 5.3 Advice for firefighters
- · Protective equipment:

Wear self-contained respiratory protective device.

Mouth respiratory protective device.

### **SECTION 6: Accidental release measures**

### · 6.1 Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation

Keep away from ignition sources.

Wear protective equipment. Keep unprotected persons away.

#### • 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.

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

#### · 6.3 Methods and material for containment and cleaning up:

Recommended cleaner: acetone

Dispose contaminated material as waste according to item 13.

Ensure adequate ventilation.

Do not flush with water or aqueous cleansing agents

#### · 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.

# **SECTION 7: Handling and storage**

### · 7.1 Precautions for safe handling

Ensure good ventilation/exhaustion at the workplace.

Open and handle receptacle with care.

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

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

Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

#### • 7.2 Conditions for safe storage, including any incompatibilities

- · Storage:
- · Requirements to be met by storerooms and receptacles:

Store in a cool location.

Observe official regulations on storing packagings with pressurised containers.

- Information about storage in one common storage facility: Not required.
- Further information about storage conditions:

Keep container tightly sealed.

Do not seal receptacle gas tight.

Store in cool, dry conditions in well sealed receptacles.

Protect from heat and direct sunlight.

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· 7.3 Specific end use(s) OCF

### **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, isomers 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

### 115-10-6 dimethyl ether

WEL Short-term value: 958 mg/m³, 500 ppm Long-term value: 766 mg/m³, 400 ppm

#### 124-38-9 carbon dioxide

WEL Short-term value: 27400 mg/m³, 15000 ppm Long-term value: 9150 mg/m³, 5000 ppm

- 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.

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. In case of intensive or longer exposure use self-contained respiratory protective device.

Protection of hands:



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.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

#### Material of gloves

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.

#### 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.

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**Eye protection:** 

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Tightly sealed goggles

# **SECTION 9: Physical and chemical properties**

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· General Information

· Appearance:

Form: Aerosol

**Colour:** According to product specification

Odour: CharacteristicOdour threshold: Not determined.

• **pH-value:** Not determined.

Change in condition

Melting point/Melting range: Undetermined.

**Boiling point/Boiling range:** Not applicable, as aerosol.

• Flash point: Not applicable, as aerosol.

• Flammability (solid, gaseous): Not applicable.

· **Ignition temperature:** 235 °C

**Decomposition temperature:** Not determined.

• **Self-igniting:** Product is not selfigniting.

**Danger of explosion:** Not determined.

· Explosion limits:

· Evaporation rate

**Lower:** 3 Vol % Upper: 16 Vol %

· Vapour pressure at 20 °C: 5.5 bar

• **Density at 20 °C:** 0.986 g/cm<sup>3</sup>

• Relative density
• Vapour density
• Not determined.
• Not determined.

Solubility in / Miscibility with

water: Not miscible or difficult to mix.

Not applicable.

Partition coefficient (n-octanol/water): Not determined.

Viscosity:

**Dynamic:** Not determined. **Kinematic:** Not determined.

· Solvent content:

Organic solvents: 19.15 %

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VOC (EC) 187.07 g/L 18.50 %

• **9.2 Other information** No further relevant information available.

# **SECTION 10: Stability and reactivity**

- 10.1 Reactivity No dangerous reactions are known
- 10.2 Chemical stability No decomposition if used according to specifications.
- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- · 10.3 Possibility of hazardous reactions No dangerous reactions known.
- 10.4 Conditions to avoid No further relevant information available.
- · 10.5 Incompatible materials: Acids, bases and oxidants. Amines and alcoholes. Polyols and water
- · 10.6 Hazardous decomposition products:

Hydrogen cyanide (prussic acid)

Hydrogen chloride (HCl)

Carbon monoxide

Carbon dioxide

Nitrogen oxides

# **SECTION 11: Toxicological information**

- 11.1 Information on toxicological effects
- · Acute toxicity
- Primary irritant effect:
- · Skin corrosion/irritation Irritant to skin and mucous membranes.
- Serious eye damage/irritation Irritating effect.
- Respiratory or skin sensitisation

Sensitisation possible through inhalation.

Sensitisation 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 (carcinogenity, mutagenicity and toxicity for reproduction)

Carc. 2, Lact.

### **SECTION 12: Ecological information**

- · 12.1 Toxicity
- · Aquatic toxicity:

Cured foam has no C14-C17 chloroalkanes leaching in water for a maximum 20% C14-C17 chloroalkanes in mixture. Sudy: "Pulverized PU Foam HM23. Leaching study, Limit test" by Dr. Christine Jahns and sponsored by FEICA AISBL, 09.12.2014.

- 12.2 Persistence and degradability No further relevant information available.
- 12.3 Bioaccumulative potential No further relevant information available.

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- **12.4 Mobility in soil** No further relevant information available.
- Additional ecological information:
- · General notes:

Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water Do not allow product to reach ground water, water course or sewage system.

Danger to drinking water if even small quantities leak into the ground.

- · 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. Prevent entry into sewers.

· 13.2 Euroj	- 13.2 European waste catalogue			
	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			
	CONSTRUCTION AND DEMOLITION WASTES (INCLUDING EXCAVATED SOIL FROM			
1	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 inform	nation
· 14.1 UN-Number · ADR, IMDG, IATA	UN1950
· 14.2 UN proper shipping name	
· ADR	1950 AEROSOLS
· IMDG	AEROSOLS (alkanes, C14-17, chloro), MARINE
	POLLUTANT
· IATA	AEROSOLS, flammable
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14.3 Transport hazard class(es)		
ADR		
<b>&amp;</b>		
Class	2 5F Gases.	
Label	2.1 Guses.	
IMDG		
Class	2.1	
Label	2.1	
IATA		
Class	2.1	
Label	2.1	
14.4 Packing group ADR, IMDG, IATA	Void	
14.5 Environmental hazards:		
Marine pollutant:	No	
14.65	Symbol (fish and tree)	
14.6 Special precautions for user Danger code (Kemler):	Warning: Gases.	
EMS Number:	F-D,S-U	
14.7 Transport in bulk according to Anne	ex II of	
MARPOL73/78 and the IBC Code	Not applicable.	
Transport/Additional information:		
ADR		
Limited quantities (LQ)	1L	
Transport category	2	
Tunnel restriction code	D	
UN "Model Regulation":	UN1950, AEROSOLS, 2.1	

# **SECTION 15: Regulatory information**

· 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture No further relevant information available.

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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.
H362	May cause harm to breast-fed children.
H373	May cause damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
R12	Extremely flammable.
R20	Harmful by inhalation.
R36/37/38	Irritating to eyes, respiratory system and skin.
R42/43	May cause sensitisation by inhalation and skin contact.
R50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

#### R66 Repeated exposure may cause skin dryness or cracking. Abbreviations and acronyms:

R64

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 Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

May cause harm to breastfed babies.

ELINCS: European List of Notified Chemical Substances

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

VOC: Volatile Organic Compounds (USA, EU) Flam. Gas 1: Flammable gases, Hazard Category 1

Flam. Aerosol 1: Flammable aerosols, Hazard Category 1

Press. Gas C: 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

Lact.: Reproductive toxicity, Additional category, Effects on or via lactation

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

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

Aquatic Acute 1: Hazardous to the aquatic environment - AcuteHazard, Category 1

Aquatic Chronic 1: Hazardous to the aquatic environment - Chronic Hazard, Category 1

Aquatic Chronic 4: Hazardous to the aquatic environment - Chronic Hazard, Category 4