

Material Safety Data Sheet (91/155/EEC)

Date: 12-02-1996
Translation of Dutch MSDS Revision 006

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1. Product and company information

Commercial product name: **SX Gun Grade Foam**

Supplier: Siroflex Ltd, Dodworth Business Park, Dodworth Barnsley S75 3SP, telephone: 01226 771600, facsimile: 01226 771601

Emergency phone: +31(0) 413-268716 (after working time)

2. Composition/information on ingredients

Chemical characterisation: MDI based prepolymer in an aerosol tin with flammable propellant.

<u>Hazardous substances</u>	<u>CAS nr.</u>	<u>Weight-%</u>	<u>Symbol</u>	<u>R-phrases</u>
Diphenylmethane-4,4'-diisocyanate	9016-87-9	30-60	"Xn"	20-36/37/38-42
Mixture of n-Butane (propellant) and Propane (propellant)	106-97-8		"F ⁺ "	12
R134a (propellant)	74-56-6	1-15	"F ⁺ "	12
	811-97-2	1-15	NA	NA

Exposure limits in various countries have to be taken into account.

3. Hazard identification

Potential health effects:

When heated container can burst. When temperature is rising the pressure within the tin increases. Harmful by inhalation. Irritating to eyes, respiratory system and skin. After curing the product is harmless. The formulation contains a certain amount of propellant which is heavier as air.

4. First aid measures

Ingestion : Consult a physician and show this Material Safety Data Sheet.
Skin : Remove completely with a dry cloth or paper towel, before washing with detergent and water. Get medical attention if complaint persists.
Inhalation : Fresh air and rest. Get medical attention if complaint persists.
Eyes : In case of contact flush eyes immediately with plenty of water for at least 15 minutes. Lift eyelids and rinse well underneath them. Get medical attention if complaint persists.
Further : Remove polluted clothing.

5. Fire fighting measures

Extinguishing media : Waterspray, powder and foam.
NOT to be used : CO₂.

Special firefighting procedures : Wear protective clothing and breathing apparatus.

6. Accidental release measures

Wear proper protective equipment as described in the 'personal protection' section of chapter 8.
Avoid the product will come in the environment.
Wipe, scrape or soak up in inert material and put in a container for disposal.

7. Handling and storage

Technical protective measures : Store dry in closed packing between 5 C (41 F) and 25 C (77 F). Handle in well ventilated area.
Personal protective measures : Eye- and skin protection.
Fire- and explosion measures : Keep away from sources of ignition.

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8. Exposure controls and personal protection

Technical protective measures : zie punt 7.

Industrial hygiene :
- When using do not eat, drink or smoke.
- Wash hands after work and before breaks.
- Don't rub eyes with dirty hands.

Personal protective equipment :

- Eye protection : safety glasses.
- Hand protection : rubber gloves.
- Inhalation : use in well ventilated areas.
- Skin protection : well fitting clothing.

9. Physical and chemical properties

Physical state:	aerosol			
Color:	yellow			
Odor:	amine like			
Density (water = 1):	1,1	g/ml		
pH (water = 7):	NA			
Boiling point:	NA	C	NA	F
Freezing point:	NA	C	NA	F
Flash point:	<0	C	<32	F
Lower explosion limit:	4	vol-%		
Upper explosion limit:	9	vol-%		
Ignition temperature:	NA	C	NA	F
Vapor pressure:	NA	mbar		
Solubility in water (25 C):	insoluble			
Solubility in toluene (25 C):	soluble			

10. Stability and reactivity

Hazardous decomposition products : In case of fire hydrogenhalogenides, nitrogen/phosphates and organic crack products can arise.

Materials to avoid : Unknown

Conditions to avoid : Keep away from sources of ignition.

11. Toxicological information

<u>Product information</u> :	<u>MDI</u>	<u>n-Butane</u>	<u>Propane</u>
Acute oral LD50 (mg/kg)	: 10000	unknown	unknown (mouse, 1996)
Acute dermal LD50 (mg/kg)	: unknown	unknown	unknown
Acute inhalation LC50 (mg/l)	: unknown	658	unknown (mouse, 1996)
MAC-value (ppm)	: 0,005	600	unknown (Dutch Chemicalkaarten, 10 ^e edition, 1994/1995)

Other information : May cause sensitization by inhalation.

For information on hazardous substances see 'chapter 2'.

12. Ecological information

Avoid uncured product will come in the environment.
Ecotoxicological information: unknown
WGK: 2 (self classification)

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13. Disposal considerations

Disposal as waste matter : dispose in accordance with federal, state and local legislation.

14. Transport information

By sea according GGVSee/IMGD-Code : Class 2.1, EmS: 2-13, MFAG: 620, label: 3
By land according RID/ADR/GGVS/GGVE : Class 2, letter: 5F, Dangermap: 20G53, label: 3.
By air according ICAO/IATA-DGR : Class 2.1, Cargo: 203, Passenger: 203, Packing group: II.
UN-number : 1950
Further information : Shipping name: 'Aerosols'.

15. Regulatory information

This product is not subject to the labeling requirements of EC Directives 67/548/EEC and 88/379/EEC as amended.

Danger symbol: "Xn" (harmful), "F⁺" (extremely flammable)

Contains: Diphenylmethane-4,4'-diisocyanate.

R-phrases: 12-20-36/37/38-42

S-phrases: 2-26-28-38-45.

16. Other information

This data is offered in good faith as typical values and not as a product specification. No warranty either expressed or implied, is hereby made. The recommended industrial hygiene and safe handling procedures are believed to be generally applicable, each user should review the recommendations in the specific context of the intended use and determine whether they are appropriate.

NA : not applicable.

TSC : trade secret component.