

**SAFETY DATA SHEET** according to 453/2010/EC

Reference : 0227.1.DBF  
Date : 03.02.2011  
Replaces : 04.11.2009

**1. IDENTIFICATION OF THE PREPARATION AND COMPANY**

**Product name** : SX MIGHTY STRENGTH SUPERFAST PU ADHESIVE  
**Intended use** : Polyurethane adhesive  
**Name and full address of company** : SIROFLEX LIMITED. Dodworth Business Park, Dodworth, Barnsley, S75 3SP  
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**2. HAZARDS IDENTIFICATION**

In accordance with 67/548/CE et 99/45/CE :

**Danger classification** : Xn Harmful

**Contain** : Diphenylmethane diisocyanate

**Phrase R** : R20 : Harmful by inhalation

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

R40: Limited evidence of a carcinogenic effect.

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

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

**Phrase S** : S2: Keep out of the reach of children.

S23 : Do not breathe vapours

S36/37: Wear suitable protective clothing and gloves.

S45: In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

S46: If swallowed, seek medical advice immediately and show this container or label.

S63 : In case of accident by inhalation: remove casualty to fresh air and keep at rest

Contains isocyanates – See information supplied by the manufacturer. This information is supplied in the present safety data sheet.

**3. COMPOSITION / INFORMATIONS ON INGREDIENTS**

Dangerous ingredients	CAS Number	% - Weight	Symbols	R Phrases
Diphenylmethane diisocyanate	26447-40-5	25-50 %	Xn	20-36/37/38 –40-42/43-48/20

**4. FIRST AID MEASURES**

**General** : In all cases of doubt, or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person

**Eye contact** : irrigate copiously with clean, fresh water for at least 10 minutes, holding the eyelids apart and seek medical advice.

**Ingestion** : If accidentally swallowed obtain immediate medical attention. Keep at rest. Do NOT induce vomiting.

**Inhalation** : Remove to fresh air, keep patient warm and at rest. If breathing is irregular or stopped, administer artificial respiration. Give nothing by mouth. If unconscious place in recovery position and seek medical advice

**Skin contact** : Remove contaminated clothing. Wash skin thoroughly with soap and water or use recognised skin cleanser. Do NOT use solvents or thinners

**5. FIRE FIGHTING MEASURES**

**recommended extinguishing media** : water spray , CO<sub>2</sub> powders, foam

**Not to be used** : waterjet

**Particularities** : Use an appropriate breathing apparatus. Cool closed containers exposed to fire with water

**6. ACCIDENTAL RELEASE MEASURES**

**Environmental precautions** : Do not allow to enter drains or watercourses.If the product contaminates lakes, rivers or sewage, inform appropriate authorities in accordance with local regulations

**Clean up procedure** : Collect mechanically the preparation and place in container. One possible decontaminant comprises : Water/Ethanol or IPA/Ammonia solution (45/50/5 by volume)

**Personal precautions** : Wear an appropriate equipment as described in § 8.

**7. HANDLING AND STORAGE**

**Handling** : Persons with a history of asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this preparation is used Avoid skin and eye contact and the inhalation of vapours. Comply with the health and safety at work laws.

**Storage** : Store in a dry, well ventilated area, between +5 and +25°C and place away from sources of heat and direct sunlight. Keep away from oxidising agent, from strongly acid materials as well

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as amines, alcohol and water. No smoking. Prevent unauthorised access. Containers which are opened must be carefully resealed.

### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

#### Exposure limits

Names	VME (8h/j)		VLE (15min)	
	ppm	mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>
Diphenylmethane diisocyanate	0.01	0.1	0.02	0.2

**Respiratory protection** : Do not inhale vapours. Provide adequate ventilation with a good general extraction.  
**Eye and skin protection** : Avoid skin/eye contact. Use safety eyewear, neoprene or polyvinyl gloves and closed protective clothing  
**Protection during working** : Smoking, eating, drinking are prohibited in application area. Wash the hands after working. Do not touch eyes with dirty hands.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Physical state</b>	: Paste	<b>Flash point</b>	: >61 °C
<b>Colour</b>	: Transparent	<b>Solubility in water</b>	: No ; reaction
<b>Odour</b>	: PA	<b>Solubility in organic solvents</b>	: Yes
<b>Density</b>	: 1.12 approx. g/ml	<b>VOC contents (CH &amp; EC)</b>	: 0 % weight

### 10. STABILITY AND REACTIVITY

The preparation is stable under recommended storage and handling conditions (see § 7).

**Hazardous decomposition products** : During polymerisation : CO<sub>2</sub>, which in closed containers can result in pressurisation  
In case of fire : isocyanates, carbon monoxide and dioxide, smoke, nitrogen oxide, hydrogen cyanide

### 11. TOXICOLOGICAL INFORMATION

#### Information product

Based on the properties of the isocyanate components, this preparation may cause acute irritation and sensitization of the respiratory system leading to an asthmatic condition, wheeziness and a tightness of the chest. Sensitized persons may subsequently show asthmatic symptoms when exposed to atmospheric concentrations well below the OEL. Repeated exposure may lead to permanent respiratory disability. Repeated or prolonged contact with the preparation may cause non-allergic contact dermatitis and absorption through the skin. The paste splashed in the eyes may cause irritation and reversible damage

#### Diphenylmethane diisocyanate

**Acute oral LD50 rat (mg/kg)**

**Acute dermal LD50 rabbit (mg/kg)**

**Acute inhalation LC50 rat (mg/l/4h)**

0,49

### 12. ECOLOGICAL INFORMATION

The preparation has been assessed following the conventional method of the Dangerous Preparations Directive (1999/45/EC) and classified not dangerous for environment. The product should not be allowed to enter drains or water courses.

### 13. DISPOSAL INFORMATION

In accordance with federal, national and local legislation.

**Disposal code** : 080409

### 14. TRANSPORT INFORMATION

Transport only in accordance with ADR for road, RID for rail, IMDG for sea and IACO/IATA for air transport. Exempted of transport classification.

### 15. REGULATORY INFORMATION

#### Other regulations, limitations and prohibitive regulations

DECISION No 1348/2008/EC:

Shall not be placed on the market after 27 December 2010 for supply to the general public, unless the packaging:

(a) contains protective gloves which comply with the requirements of Council Directive 89/686/EEC of 21 December 1989 on the approximation of the laws of the Member States relating to personal protective equipment.

(b) is marked visibly, legibly and indelibly as follows, and without prejudice to other Community legislation concerning the classification, packaging and labelling of dangerous substances and preparations:

“- 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.”

### 16. OTHERS INFORMATIONS

**Professional table** : n°62

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**Text of R phrases in §2**

: 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 sensitization by inhalation and skin contact.  
48/20: Harmful: danger of serious damage to health by prolonged exposure through inhalation.

**Modified sections in this revision**

: 2 ;3 ;15

The information of this SDS is based on the present state of our knowledge and on current EU and national laws. The product is not to be used for other purposes than those specified under section 1 without first obtaining written handling instruction. It is always the responsibility of the user to take all necessary steps in order to fulfil the demand laid down in the local rules and legislation. The information in this SDS is meant as a description of the safety requirements of our product: it is not to be considered as a guarantee of the products' properties.

**I = Unknown**

**PA = Not concerned**

**SF = Secret of process**