



# MATERIAL SAFETY DATA SHEET

Issue date: 28<sup>th</sup> May, 2008

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## 1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

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**Product Name: TREMflex® 25LS**

Company: Tremco Pty Limited ABN 25 000 024 064  
Address: Unit 1, 2 Park Road, Rydalmere, New South Wales, 2116  
Contact Nos.: Telephone: (02) 9638 2755 Fax: (02) 9638 2955  
Emergency  
Telephone: 1800 224 512 7am to 5pm Monday to Friday inclusive  
Product Code: 240157 600ml Sausage  
Recommended  
Use: Polyurethane Sealant  
Manufacturer's Product  
Code: 74073A  
Proper Shipping  
Name: None Allocated

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## 2. HAZARDS IDENTIFICATION

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NOT CLASSIFIED AS HAZARDOUS ACCORDING TO THE CRITERIA OF WORKSAFE AUSTRALIA

Symbols: Xn Harmful  
Contains isocyanates.

Hazchem Code: None Allocated

Risk Phrases: R10 Flammable  
R20/21 Harmful by inhalation and in contact with skin  
R36/37/38 Irritating to eyes, respiratory system and skin  
R41 Risk of serious damage to eyes  
R42/43 May cause sensitization by inhalation and skin contact

Safety Phrases: S2 Keep out of the reach of children  
S7/9 Keep container tightly closed and in a well ventilated place  
S25 Avoid contact with eyes  
S36/37/39 Wear suitable protective clothing, gloves and eye/face protection  
S45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

### Emergency Overview

Grey viscous paste. May cause mucous membrane irritation. Leave area to breathe fresh air. Avoid further overexposure. If symptoms persist, get medical attention.

### Acute Potential Health Effects/ Routes of Entry

Inhalation : May cause mucous membrane irritation.  
Eyes : May cause irreversible local damage to the eyes.  
Ingestion : Harmful. Ingestion may result in nausea.  
Skin : Irritant.

### **Aggravated Medical Conditions**

Pre-existing eye, skin, and respiratory disorders may be aggravated by exposure.

### **Chronic Health Effects**

Effects of long term exposure not known, short term exposure is not expected to cause major problems if removed immediately.

**Target Organs:** Skin, Eye and Lung.

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## **3. COMPOSITION / INFORMATION ON INGREDIENTS**

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<b>Chemical Name:</b>	<b>CAS Number:</b>	<b>Proportion:</b>
Xylene	1330-20-7	2.0-5.0%
Calcium Oxide	1305-78-8	<2.5%
Diphenylmethane-4,4'-diisocyanate	31795-24-1	<1.0%

Product containing a polyurethane prepolymer based on diphenylmethanediisocyanate.

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## **4. FIRST AID MEASURES**

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Immediately remove any clothing soiled by the product.

- Inhalation : Supply fresh air. If required provide artificial respiration. Keep patient warm. If symptoms persist, get medical attention.
- Eye contact : Rinse opened eye for several minutes under running water . Then consult a doctor.
- Skin contact : Wash area of contact thoroughly with soap and water and rinse thoroughly. If irritation, rash or other disorders develop, get medical attention immediately.
- Ingestion : Get medical attention. Do not induce vomiting unless advised by a physician. Call nearest Poison Control Centre (Ph. 13 11 26 in all states).
- First Aid Facilities : Eye wash and shower.

The following symptoms may occur:

Drowsiness  
Headache  
Dizziness  
Nausea

If ANY signs of distress or adverse reaction to contact with any chemical product, transport patient to nearest hospital or doctor.

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## **5. FIRE FIGHTING MEASURES**

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Flash point : 40-55°C

Lower explosion limit : 0.6 Vol %  
Upper explosion limit : 0.8 Vol %  
Autoignition temperature : >200°C

Extinguishing media : This product is not expected to burn under normal conditions of use in a well ventilated area. Suitable extinguishing agents would be Carbon Dioxide, Foam or Fire Extinguishing Powder

For safety reasons unsuitable extinguishing agents : Water with full jet

Hazardous combustion

Products : In case of fire the following could be released  
Carbon monoxide (CO)  
Nitrogen oxides (NO<sub>x</sub>)

In certain other fire conditions, traces of other toxic gases cannot be excluded e.g.  
Hydrogen cyanide (HCN)  
Isocyanates

Protective Equipment for

Firefighters: Use accepted fire fighting techniques. Wear full self-contained breathing apparatus (SCBA).

Fire & explosion conditions: This product not expected to ignite under normal conditions of use.

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## 6. ACCIDENTAL RELEASE MEASURES

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Observe all local and national regulations.

**Person-related safety precautions:**

Ensure adequate ventilation.

Keep away from ignition sources.

**Measures for environmental protection:**

Do not allow product to reach streets, sewage system or any water course.

**Measures for cleaning/collecting:**

Absorb spill in sand, earth or other suitable material. Pick up mechanically. Send for recovery or disposal in suitable receptacles. Do not close them (reaction with water forming carbon dioxide).

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## 7. HANDLING & STORAGE

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**Handling**

**Information for safe handling:** No special measures required.  
**Information about protection against explosions and fires:** Keep ignition sources away - Do not smoke.  
**Storage Requirements to be met by storerooms and receptacles:** Provide ventilation for receptacles.  
**Information about storage in one common storage facility:** Not required.  
**Further information about storage conditions:** Store in a cool place.  
Protect from humidity and water.

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## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

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

**1330-20-7 xylene, mixture of isomers**

WEL Short-term value: 441 mg/m<sup>3</sup>, 100 ppm  
Long-term value: 220 mg/m<sup>3</sup>, 50 ppm  
Sk; BMGV

**1305-78-8 calcium oxide**

WEL Long-term value: 2 mg/m<sup>3</sup>

**101-68-8 diphenylmethane-4,4'-diisocyanate**

WEL Short-term value: 0.07 mg/m<sup>3</sup>  
Long-term value: 0.02 mg/m<sup>3</sup>  
Sen; as -NCO

**Additional information:**

The lists that were valid during the creation were used as basis.

### Personal protection equipment

**General protective and hygienic measures**

Avoid close or long term contact with the skin.  
Wash hands before breaks and at the end of work.  
Do not eat, drink, smoke while working.  
Do not inhale gases / fumes / aerosols.  
Pregnant women should avoid inhalation or skin contact.

**Breathing equipment:**

Use suitable respiratory protective device in case of insufficient ventilation:

Short term filter device:

Filter AB

**Protection of hands:**

Protective gloves

**Engineering measures :** Not required under normal conditions of use. Use local exhaust when the general ventilation is inadequate.

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

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Appearance: Pasty

Colour:	Grey
Odour	Light
pH:	Not available
Boiling Point / Range(°C):	137°C
Flashpoint:	40-55°C
Solubility in Water:	Not miscible or difficult to mix
Specific Gravity :	1.17
Percent Volatiles:	Lower 0.6 Vol % Upper 8 Vol %
Flammability (solid):	The product is not subject to classification because its speed of combustion is lower than the limit of the regulations.
Self-ignition Temperature:	>200°C
Self-igniting:	Product is not self-igniting at room Temperature
Danger of explosion:	Product is not explosive. However, formation of explosive air/vapour mixtures are possible.

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## 10. STABILITY AND REACTIVITY

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### Thermal decomposition / conditions to be avoided:

No decomposition if used according to specifications.

### Materials to be avoided:

#### Dangerous reactions:

Reacts with alcohols, amines, aqueous acids and alkalis. Reacts with water forming carbon dioxide. Danger of receptacles bursting because of vapour overpressure.

### Dangerous products of decomposition:

No dangerous decomposition products known.

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## 11. TOXICOLOGICAL INFORMATION

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### Acute toxicity:

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

Xylene, mixture of isomers, CAS-No.: 1330-20-7

Oral toxicity (LD-50) 8,700 mg/kg (Rat)

Dermal toxicity (LD50) 2,000 mg/kg (Rabbit)

Inhalative (LC50/4 h) 6,350 mg/l (Rat)

### Primary irritant effect:

· **on the skin:** No irritant effect.

· **on the eye:** No irritating effect.

· **Sensitization:** Sensitizing effect through inhalation is possible with prolonged exposure. Sensitization possible through inhalation.

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## 12. ECOLOGICAL INFORMATION

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Water Hazard. Hazardous for water, do not allow product to reach ground water, water course or sewage system.

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## 13. DISPOSAL CONSIDERATIONS

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Product Disposal Methods: Ensure waste disposal conforms to local waste disposal regulations.

This material contains environmentally hazardous substances. Subject to hazardous waste treatment, storage and disposal requirements. Relevant regulations and competent authorities should be consulted for disposal requirements.

Uncleaned Packagings: Disposal must be made according to official regulations.

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## 14. TRANSPORT INFORMATION

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UN Number: None allocated  
Proper Shipping Name: Not regulated  
Packing Group: None allocated  
Hazchem Code: None allocated  
Special Precautions for User: None

This product is not classified as a dangerous good under the provisions of the "Australian Code for the Transport of Dangerous Goods by Road and Rail".

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## 15. REGULATORY INFORMATION

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Risk & Safety Phrases listed in Section 2.

Classified as Hazardous according to criteria of Worksafe Australia.

Hazard Designation of product:

Xn Harmful Xylene 1330-20-7  
Diphenylmethane-4,4"-diisocyanate 101-68-8

Xi Irritant Xylene 1330-20-7  
Calcium Oxide 1305-78-8  
Diphenylmethane-4,4"-diisocyanate 101-68-8

If used according to manufacturer's conditions this product is safe to use, however, persons known to be hypersensitive (asthma, chronic bronchitis) should not use this product.

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## 16. OTHER INFORMATION

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For Industrial Use only. Keep out of reach of children. The hazard information herein is offered solely for the consideration of the user, subject to their own investigation of compliance with applicable regulations, including the safe use and storage of the product under every foreseeable condition.

Website: [www.tremco.com.au](http://www.tremco.com.au)

The information sourced for the preparation of this document was correct and complete at the time of writing or to the best of the writer's knowledge. The document represents the commitment to the company's responsibilities surrounding the supply of this product undertaken in good faith. This document should be taken as a safety guide for the product and its recommended uses but is in no way an absolute authority.