

# Safety Data Sheet

according to 1907/2006/EC, Article 31

Printing date 19.07.2009

Revision: 19.07.2009

## 1 Identification of substance:

- **Product details:**
- **Trade name:** EMFIMASTIC PU 60
- **Article number:** 74062
- **Application of the substance / the preparation :** Polyurethane sealant
- **Manufacturer/Supplier:**  
 Adheseal Pty Ltd  
 2/8 Harvton St  
 Stafford  
 Qld 4053  
 Australia  
 Phone: 61 7 33560000  
 Fax : 61 7 33560005  
 Internet : <http://www.adheseal.com.au>
- **E-mail address of the competent person responsible for the safety data sheet :**  
[mal@adheseal.com.au](mailto:mal@adheseal.com.au)
- **Information department:** Laboratory

## 2 Hazards identification

- **Hazard description:**



Xn Harmful

- **Information pertaining to particular dangers for man and environment**  
 R 42 May cause sensitisation by inhalation.  
 Contains isocyanates. See information supplied by the manufacturer.
- **Classification system**  
 The classification was made according to the latest editions of the EU-lists, and expanded upon from company and literature data.

## 3 Composition/information on ingredients

- **Chemical characterization**
- **Description:**  
 Product containing a polyurethane prepolymer based on diphenylmethanediisocyanate.

- **Dangerous components:**

CAS: 1330-20-7 EINECS: 215-535-7	xylene, mixture of isomers ☒ Xn, ☒ Xi; R 10-20/21-38	2.5-10%
CAS: 1305-78-8 EINECS: 215-138-9	calcium oxide ☒ Xi; R 41	< 2.5%
CAS: 64742-47-8 EINECS: 265-149-8	distillates (petroleum), light ☒ Xn; R 65-66	< 2.5%
CAS: 100-41-4 EINECS: 202-849-4	ethylbenzene ☒ Xn, ☒ F; R 11-20	< 2.5%
CAS: 101-68-8 EINECS: 202-966-0	diphenylmethane-4,4'-diisocyanate ☒ Xn, ☒ Xi; R 20-36/37/38-40-42/43-48/20	< 1%

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

## 4 First aid measures

- **General information** Immediately remove any clothing soiled by the product.

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- **After inhalation**  
Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.
- **After skin contact** Immediately wash with water and soap and rinse thoroughly.
- **After eye contact**  
Rinse opened eye for several minutes under running water. Then consult a doctor.
- **The following symptoms may occur:**  
Drowsiness  
Headache  
Dizziness  
Nausea

### 5 Fire fighting measures

- **Suitable extinguishing agents**  
Carbon dioxide  
Foam  
Fire-extinguishing powder
- **For safety reasons unsuitable extinguishing agents** Water with full jet.
- **Special hazards caused by the material, its products of combustion or resulting gases:**  
In case of fire, the following can be released:  
Carbon monoxide (CO)  
Nitrogen oxides (NOx)  
In certain fire conditions, traces of other toxic gases cannot be excluded, e.g.:  
Hydrogen cyanide (HCN)  
Isocyanates
- **Protective equipment:** Wear self-contained respiratory protective device.

### 6 Accidental release measures

- **Person-related safety precautions:**  
Ensure adequate ventilation.  
Keep away from ignition sources.
- **Measures for environmental protection:**  
Do not allow product to reach sewage system or any water course.
- **Measures for cleaning/collecting:**  
Pick up mechanically.  
Send for recovery or disposal in suitable receptacles.  
Do not close them (reaction with water forming carbon dioxide).

### 7 Handling and storage

- **Handling**
- **Information for safe handling:** Ensure good ventilation/exhaustion at the workplace.
- **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:**  
Keep receptacle tightly sealed.  
Store in dry conditions.  
Store in a cool place.

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## 8 Exposure controls and personal protection

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

· **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
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### 64742-47-8 distillates (petroleum), light

OEL	Short-term value: 1200 mg/m <sup>3</sup> , 165 ppm
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### 100-41-4 ethylbenzene

WEL	Short-term value: 552 mg/m <sup>3</sup> , 125 ppm Long-term value: 441 mg/m <sup>3</sup> , 100 ppm
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### 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
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· **Additional information:** The lists that were valid during the creation were used as basis.

· **Personal protective 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.

· **Breathing equipment:**

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

Short term filter device:

Filter AB

· **Protection of hands:**

PVA gloves of superior quality.

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.

· **Eye protection:** Tightly sealed goggles.

· **Body protection:** Protective work clothing.

## 9 Physical and chemical properties:

· **General Information**

<b>Form:</b>	Pasty
<b>Colour:</b>	Various colours
<b>Odour:</b>	Light

· **Change in condition**

**Melting point/Melting range:** undetermined

**Boiling point/Boiling range:** 137°C

<b>Flash point:</b>	40-55°C (in closed cup)
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<b>Flammability (solid)</b>	The product is not subject to classification because its speed of combustion is lower than the limit of the regulation.
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<b>Self-ignition temperature:</b>	> 200°C
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· <b>Self igniting:</b>	Product is not selfigniting at room temperature.
· <b>Danger of explosion:</b>	Product is not explosive. However, formation of explosive air/ vapour mixtures are possible.
· <b>Explosion limits:</b>	
<b>Lower:</b>	0.6 Vol %
<b>Upper:</b>	7 Vol %
· <b>Density at 20°C:</b>	1.17
· <b>Solubility in / Miscibility with Water:</b>	Not miscible or difficult to mix.

## 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 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.

## 11 Toxicological information

- **Acute toxicity:**
- **LD/LC50 values that are relevant for classification:**

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

Oral	LD50	8700 mg/kg (rat)
Dermal	LD50	2000 mg/kg (rbt)
Inhalative	LC50/4 h	6350 mg/l (rat)

### 100-41-4 ethylbenzene

Oral	LD50	3500 mg/kg (rat)
Dermal	LD50	17800 mg/kg (rbt)

- **Primary irritant effect:**
- **on the skin:** May be slightly irritant.
- **on the eye:** Light irritating effect.
- **Sensitization:** Sensitization possible through inhalation.
- **Sensitisation** May cause sensitisation by inhalation.

## 12 Ecological information:

- **Ecotoxicical effects:**
- **Other 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.

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### 13 Disposal considerations

- **Product:**
- **Recommendation**  
*Must be disposed of in an incinerator for hazardous waste according to official regulations.*
- **Waste disposal key:** 08 04 09\*
- **Uncleaned packagings:**
- **Recommendation:** *Disposal must be made according to official regulations.*

### 14 Transport information

- **Land transport ADR/RID (cross-border)**
- **ADR/RID class:** -
- **Remarks:** Not hazardous
- **Maritime transport IMDG:**
- **IMDG Class:** -
- **Marine pollutant:** No
- **Remarks:** Not hazardous
- **Air transport ICAO-TI and IATA-DGR:**
- **ICAO/IATA Class:** -
- **Proper shipping name:** Not regulated
- **Remarks:** Not hazardous.

### 15 Regulations

- **Markings according to EU guidelines:**  
*The product has been classified and marked in accordance with EU directives.*
- **Code letter and hazard designation of product:**



Xn Harmful

- **Hazard-determining components of labelling:**  
*diphenylmethane-4,4'-diisocyanate*
- **Risk phrases:**  
*42 May cause sensitisation by inhalation.*
- **Safety phrases:**  
*45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).*
- **Safety phrases in case of sale to the general public :**  
*2 Keep out of the reach of children.*  
*46 If swallowed, seek medical advice immediately and show this container or label.*  
*63 In case of accident by inhalation, remove casualty to fresh air and keep at rest.*
- **Special labelling of certain preparations:**  
*Contains isocyanates. See information supplied by the manufacturer.*
- **Advised phrases:**  
*S 23 Do not breathe vapour.*  
*S 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.*  
*S 28 After contact with skin, wash immediately with plenty of soap and water.*

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**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.*

*This data sheet is particularly in accordance with the european directives 1999/45/EC and 2001/59/EC ; it is written according to the european regulation 1907/2006/EC (annex II).*

**· Relevant R-phrases**

- 10 *Flammable.*
- 11 *Highly flammable.*
- 20 *Harmful by inhalation.*
- 20/21 *Harmful by inhalation and in contact with skin.*
- 36/37/38 *Irritating to eyes, respiratory system and skin.*
- 38 *Irritating to skin.*
- 40 *Limited evidence of a carcinogenic effect.*
- 41 *Risk of serious damage to eyes.*
- 42/43 *May cause sensitisation by inhalation and skin contact.*
- 48/20 *Harmful: danger of serious damage to health by prolonged exposure through inhalation.*
- 65 *Harmful: may cause lung damage if swallowed.*
- 66 *Repeated exposure may cause skin dryness or cracking.*

**· Department issuing MSDS:** Laboratory

**· Contact:** Mr. Johnson

**· In accordance with the international standard :**

ISO 11014-1

*An asterisk in the margin of a paragraph means amendments in comparison to the former version.*

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