

## Safety Data Sheet

according to 1907/2006/EC, Article 31

Printing date 08.04.2010

Revision: 08.04.2010

### 1 Identification of the substance/preparation and of the company/undertaking

· **Product details**

· **Trade name:** **140-B Euromix PU component B**

· **Article number:** 140-B

· **Application of the substance / preparation** *Flooring adhesive*

· **Manufacturer/Supplier:**

*Forbo Eurocol B.V.*

*Industrieweg 1-2*

*NL-1521 NA Wormerveer Holland*

*Tel. +31 75 6271600 - Fax +31 75 6283564*

*E-mail address: info.eurocol@forbo.com*

*Website: www.eurocol.com*

· **Information in case of emergency:**

*In case of emergency please contact the Dutch National Poison Control, telephone number: 0031-(0)30-2748888. (This number is only accessible to the physician treating the patient and only in case of accidental poisoning).*

### 2 Hazards identification

· **Hazard description:**



*Xn Harmful*

· **Information concerning particular hazards for persons and the 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.*

*R 20 Harmful by inhalation.*

*R 36/37/38 Irritating to eyes, respiratory system and skin.*

*R 42/43 May cause sensitisation by inhalation and skin contact.*

*Contains isocyanates. See information supplied by the manufacturer*

· **Classification system:**

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

· **GHS label elements**



**Danger**

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



**Warning**

*H335+H336 - May cause respiratory irritation. May cause drowsiness or dizziness.*

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**Warning***H315 - Causes skin irritation.**H319 - Causes serious eye irritation.**H317 - May cause an allergic skin reaction.**Contains isocyanates. May produce an allergic reaction.***Prevention:***P285 In case of inadequate ventilation wear respiratory protection.**P261 Avoid breathing dust/fume/gas/mist/vapours/spray.***Response:***P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.**P321 Specific treatment (see on this label).***Storage:***P405 Store locked up.***Disposal:***P501 Dispose of contents/container in accordance with local/regional/national/international regulations.*

### 3 Composition/information on ingredients

**Chemical characterization****Description:** *Isocyanate***Dangerous components:**

9016-87-9	diphenylmethanediisocyanate, isomeres and homologues	>50-100%
	 Xn,  Xi; R 20-36/37/38-42/43	
	Danger:  3.4.R/1	
	Warning:  3.1.1/4, 3.8/3; 3.2/2, 3.3/2, 3.4.S/1	

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

### 4 First-aid measures

**General information:***Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.***After inhalation:** *In case of unconsciousness place patient stably in side/recovery position for transportation.***After skin contact:***Immediately remove contaminated clothing, wash with water and soap and rinse thoroughly.**If skin irritation continues, consult a doctor.***After eye contact:***Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.***After swallowing:** *Do not induce vomiting; call for medical help immediately.*

### 5 Fire-fighting measures

**Suitable extinguishing agents:***CO<sub>2</sub>, powder or water haze. Fight larger fire with alcohol resistant foam.**CO<sub>2</sub>, sand, extinguishing powder. Do not use water.***For safety reasons unsuitable extinguishing agents:** *Water and foam***Special hazards caused by the substance, its products of combustion or resulting gases:***Formation of toxic gases is possible during heating or in case of fire.*

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- **Protective equipment:**  
Mouth respiratory protective device.  
Wear self-contained respiratory protective device.
- **Additional information**  
Collect contaminated fire fighting water separately. It must not enter the sewage system.

### 6 Accidental release measures

- **Person-related safety precautions:** Ensure adequate ventilation
- **Measures for environmental protection:** No special measures required.
- **Measures for cleaning/collecting:**  
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).  
Dispose contaminated material as waste according to item 13.  
Ensure adequate ventilation.
- **Additional information:** Do not close waste container tight; CO<sub>2</sub> development!

### 7 Handling and storage

- **Handling:**
- **Information for safe handling:**  
Ensure good ventilation/exhaustion at the workplace.  
Product may not come in contact with water.  
Prevent formation of aerosols.
- **Information about fire - and explosion protection:** No special measures required.
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** Store in a cool, but frost-proof location.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:**  
Recommended storage temperature between 15 and 25 °C.

### 8 Exposure controls/personal protection

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

- **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
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- **Additional information:** The lists valid during manufacture were used as basis.
- **Personal protective equipment:**
- **General protective and hygienic measures:**  
The usual precautionary measures are to be adhered to when handling chemicals.  
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:** Ventilation. When not present use respiratory filter.

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· **Protection of hands:***Protective gloves*

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.  
Selection of the glove material is dependant on the penetration times, rates of diffusion and degradation.

· **Material of gloves**

The selection of suitable gloves does not only depend on the material, but also on further aspects 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 established by the manufacturer of the protective gloves and has to be observed.

· **For prolonged contact gloves made of the following materials are suitable: Butyl rubber**· **Eye protection:***Tightly sealed goggles*· **Body protection: Protective work clothing**

## 9 Physical and chemical properties

· **General Information**

**Form:** *Fluid*  
**Colour:** *Brown*  
**Odour:** *Characteristic*

· **Change in condition**

**Melting point/Melting range:** *Undetermined.*  
**Boiling point/Boiling range:** *Undetermined.*

· **Flash point:** *220 °C*

· **Self-igniting:** *Product is not self-igniting.*

· **Danger of explosion:** *Product does not present an explosion hazard.*

· **Density at 20°C:** *1.24 g/cm<sup>3</sup>*

· **Solubility in / Miscibility with water:** *Not miscible or difficult to mix.*

· **Viscosity:**  
**Dynamic at 20°C:** *90 mPas*

· **Solvent content:**  
**Organic solvents:** *0.0 %*

· **Solids content:** *100.0 %*

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## 10 Stability and reactivity

- **Thermal decomposition / conditions to be avoided:** *To avoid thermal decomposition do not overheat.*
- **Materials to be avoided:** *Water*
- **Dangerous reactions** *Reacts with alcohols, amines, aqueous acids and alkalis.*
- **Dangerous decomposition products:** *No dangerous decomposition products known.*

## 11 Toxicological information

### · Acute toxicity:

#### · LD/LC50 values relevant for classification:

**9016-87-9 diphenylmethanediisocyanate, isomers and homologues**

Oral	LD50	> 15000 mg/kg mg/kg (rat)
Inhalative	LC50/4 h	490 mg/l (rat)

### · Primary irritant effect:

- **on the skin:** *Irritant to skin and mucous membranes.*
- **on the eye:** *No irritating effect.*

### · Sensitization:

*Sensitization possible through inhalation.*  
*Sensitization 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*

- **Sensitisation** *May cause sensitisation by inhalation and skin contact.*

## 12 Ecological information

### · Ecotoxicological effects:

#### · Aquatic toxicity:

**9016-87-9 diphenylmethanediisocyanate, isomers and homologues**

EC50/3h	>1000 mg/l (AS)
LC0/96	>1000 mg/l (BR)
LC50/96h	>1000 mg/l (DM)

### · General notes:

*Do not allow product to reach ground water, water course or sewage system, even in small quantities.*  
*Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water*

## 13 Disposal considerations

### · Product:

#### · Recommendation

*Must not be disposed together with household garbage. Do not allow product to reach sewage system.*

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- **Uncleaned packaging:**
- **Recommendation:** *Disposal must be made according to official regulations.*

## 14 Transport information

- **Land transport ADR/RID (cross-border)**
- **ADR/RID class:** -  
*not restricted*

- **Maritime transport IMDG:**
- **IMDG Class:** -
- **Marine pollutant:** *No*

- **Air transport ICAO-TI and IATA-DGR:**
- **ICAO/IATA Class:** -  
*Not restricted*

- **UN "Model Regulation":** -
- **Transport/Additional information:** *Not classified as hazardous under transport regulations.*

## 15 Regulatory information

- **Labelling according to EU guidelines:**  
*The product has been classified and marked in accordance with EU Directives / Ordinance on Hazardous Materials.*

- **Code letter and hazard designation of product:**

*Xn Harmful*

- **Hazard-determining components of labelling:**  
*diphenylmethanediisocyanate, isomeres and homologues*

- **Risk phrases:**  
20 *Harmful by inhalation.*  
36/37/38 *Irritating to eyes, respiratory system and skin.*  
42/43 *May cause sensitisation by inhalation and skin contact.*

- **Safety phrases:**  
1/2 *Keep locked up and out of the reach of children.*  
23 *Do not breathe fumes/aerosol.*  
24/25 *Avoid contact with skin and eyes.*  
26 *In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.*  
37 *Wear suitable gloves.*  
45 *In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).*

- **Special labelling of certain preparations:**  
*Contains isocyanates. See information supplied by the manufacturer*

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- **National regulations:**
- **Technical instructions (air):**

Class	Share in %
I	75-100

- **Waterhazard class:** *Water hazard class 1 (Self-assessment): slightly hazardous for water.*
- **Other regulations, limitations and prohibitive regulations**

· <b>Substances of very high concern (SVHC) according to REACH, Article 57</b>
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<i>None of the ingredients is listed.</i>
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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.*

- **Relevant R-phrases**

20 Harmful by inhalation.  
 36/37/38 Irritating to eyes, respiratory system and skin.  
 42/43 May cause sensitisation by inhalation and skin contact.

- **Department issuing MSDS:** *R&D department*

- **Contact:** *Ing. T.W. Breeuwer*

- **Abbreviations and acronyms:**

*ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)*  
*RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)*  
*IMDG: International Maritime Code for Dangerous Goods*  
*IATA: International Air Transport Association*  
*IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)*  
*ICAO: International Civil Aviation Organization*  
*ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO)*  
*GHS: Globally Harmonized System of Classification and Labelling of Chemicals*  
*LC50: Lethal concentration, 50 percent*  
*LD50: Lethal dose, 50 percent*