

## 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.*

(Contd. on page 2)

GB

# Safety Data Sheet

according to 1907/2006/EC, Article 31

Printing date 08.04.2010

Revision: 08.04.2010

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

(Contd. of page 1)

**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.

(Contd. on page 3)

# Safety Data Sheet

according to 1907/2006/EC, Article 31

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Revision: 08.04.2010

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

(Contd. of page 2)

- **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; CO2 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.*

(Contd. on page 4)

# Safety Data Sheet

according to 1907/2006/EC, Article 31

Printing date 08.04.2010

Revision: 08.04.2010

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

(Contd. of page 3)

· **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**

<b>Form:</b>	Fluid
<b>Colour:</b>	Brown
<b>Odour:</b>	Characteristic

· **Change in condition**

<b>Melting point/Melting range:</b>	Undetermined.
<b>Boiling point/Boiling range:</b>	Undetermined.

<b>Flash point:</b>	220 °C
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<b>Self-igniting:</b>	Product is not self-igniting.
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<b>Danger of explosion:</b>	Product does not present an explosion hazard.
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<b>Density at 20°C:</b>	1.24 g/cm <sup>3</sup>
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· **Solubility in / Miscibility with water:**

Not miscible or difficult to mix.

· **Viscosity:**

<b>Dynamic at 20°C:</b>	90 mPas
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· **Solvent content:**

<b>Organic solvents:</b>	0.0 %
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<b>Solids content:</b>	100.0 %
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GB

(Contd. on page 5)

# Safety Data Sheet

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Revision: 08.04.2010

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

(Contd. of page 4)

## 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, isomeres 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:**

- **Acquatic toxicity:**

**9016-87-9 diphenylmethanediisocyanate, isomeres 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.*

(Contd. on page 6)

# Safety Data Sheet

according to 1907/2006/EC, Article 31

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Revision: 08.04.2010

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

(Contd. of page 5)

- **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*

(Contd. on page 7)

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

(Contd. of page 6)

- **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**

· **Substances of very high concern (SVHC) according to REACH, Article 57**

*None of the ingredients is listed.*

## 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*

GB