Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 03.06.2016 *Version number 1* *Revision: 03.06.2016*

SECTION 1: Identification of the substance/mixture and of the company/ undertaking

· **1.1 Product identifier**

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

· **Article number:** *140-B*

· **1.2 Relevant identified uses of the substance or mixture and uses advised against**
No further relevant information available.

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

· **1.3 Details of the supplier of the safety data sheet**

· **Manufacturer/Supplier:**
Forbo Eurocol Nederland 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

· **1.4 Emergency telephone number:**
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).

SECTION 2: Hazards identification

· **2.1 Classification of the substance or mixture**

· **Classification according to Regulation (EC) No 1272/2008**

Acute Tox. 4	*H332*	*Harmful if inhaled.*
Skin Irrit. 2	*H315*	*Causes skin irritation.*
Eye Irrit. 2	*H319*	*Causes serious eye irritation.*
Resp. Sens. 1	*H334*	*May cause allergy or asthma symptoms or breathing difficulties if inhaled.*
Skin Sens. 1	*H317*	*May cause an allergic skin reaction.*
Carc. 2	*H351*	*Suspected of causing cancer.*
STOT SE 3	*H335*	*May cause respiratory irritation.*
STOT RE 2	*H373*	*May cause damage to organs through prolonged or repeated exposure.*

· **2.2 Label elements**

· **Labelling according to Regulation (EC) No 1272/2008**
The product is classified and labelled according to the CLP regulation.

· **Hazard pictograms**

GHS07 GHS08

(Contd. on page 2)

Safety data sheet
according to 1907/2006/EC, Article 31

Printing date 03.06.2016 *Version number 1* *Revision: 03.06.2016*

Trade name: 140-B Euromix PU component B

(Contd. of page 1)

· **Signal word** *Danger*

· **Hazard-determining components of labelling:**
diphenylmethanediisocyanate,isomeres and homologues
· **Hazard statements**
H332 Harmful if inhaled.
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H317 May cause an allergic skin reaction.
H351 Suspected of causing cancer.
H335 May cause respiratory irritation.
H373 May cause damage to organs through prolonged or repeated exposure.
· **Precautionary statements**

P260	*Do not breathe dust/fume/gas/mist/vapours/spray.*
P285	*In case of inadequate ventilation wear respiratory protection.*
P305+P351+P338	*IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.*
P405	*Store locked up.*
P501	*Dispose of contents/container in accordance with local/regional/national/international regulations.*

· **Additional information:**
Contains isocyanates. May produce an allergic reaction.
· **2.3 Other hazards**
· **Results of PBT and vPvB assessment**
· **PBT:** *Not applicable.*
· **vPvB:** *Not applicable.*

SECTION 3: Composition/information on ingredients

· **3.2 Chemical characterisation: Mixtures**
· **Description:** *Isocyanate*

· **Dangerous components:**

CAS: 9016-87-9 *RTECS: TR 0320000*	*diphenylmethanediisocyanate,isomeres and homologues* *Resp. Sens. 1, H334; Carc. 2, H351; STOT RE 2, H373; Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317; STOT SE 3, H335*	*>50-100%*

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

SECTION 4: First aid measures

· **4.1 Description of 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.
Supply fresh air; consult doctor in case of complaints.
· **After skin contact:**
Immediately remove contaminated clothing, wash with water and soap and rinse thoroughly.
· **After eye contact:**
Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

(Contd. on page 3)

Safety data sheet
according to 1907/2006/EC, Article 31

Printing date 03.06.2016 *Version number 1* *Revision: 03.06.2016*

Trade name: 140-B Euromix PU component B

(Contd. of page 2)

· **After swallowing:** *Do not induce vomiting; call for medical help immediately.*
· **4.2 Most important symptoms and effects, both acute and delayed**
No further relevant information available.
· **4.3 Indication of any immediate medical attention and special treatment needed**
No further relevant information available.

SECTION 5: Firefighting measures

· **5.1 Extinguishing media**
· **Suitable extinguishing agents:**
CO2, powder or water haze. Fight larger fire with alcohol resistant foam.
· **For safety reasons unsuitable extinguishing agents:** *Water and foam*
· **5.2 Special hazards arising from the substance or mixture**
Formation of toxic gases is possible during heating or in case of fire.
· **5.3 Advice for firefighters**
· **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.

SECTION 6: Accidental release measures

· **6.1 Personal precautions, protective equipment and emergency procedures**
Ensure adequate ventilation
Wear protective equipment. Keep unprotected persons away.
Wear protective clothing.
· **6.2 Environmental precautions:** *Do not allow to enter sewers/ surface or ground water.*
· **6.3 Methods and material for containment and cleaning up:**
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Dispose contaminated material as waste according to item 13.
Ensure adequate ventilation.
· **6.4 Reference to other sections**
Do not close waste container tight; CO2 development!
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

SECTION 7: Handling and storage

· **7.1 Precautions for safe handling**
Ensure good ventilation/exhaustion at the workplace.
Product may not come in contact with water.
Keep receptacles tightly sealed.
· **Information about fire - and explosion protection:** *No special measures required.*

· **7.2 Conditions for safe storage, including any incompatibilities**
· **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:** *Store away from foodstuffs.*

(Contd. on page 4)

Safety data sheet
according to 1907/2006/EC, Article 31

Printing date 03.06.2016 *Version number 1* *Revision: 03.06.2016*

Trade name: 140-B Euromix PU component B

(Contd. of page 3)

· **Further information about storage conditions:**

Recommended storage temperature between 15 and 25 °C.
Protect from heat and direct sunlight.
Store in cool, dry conditions in well sealed packaging.

· **7.3 Specific end use(s)** *No further relevant information available.*

SECTION 8: Exposure controls/personal protection

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

· **8.1 Control parameters**

· **Ingredients with limit values that require monitoring at the workplace:**	
9016-87-9 diphenylmethanediisocyanate,isomeres and homologues	
WEL	*Short-term value: 0.07 mg/m³* *Long-term value: 0,02 mg/m³* *Sen; as -NCO*

· **Additional information:** *The lists valid during manufacture were used as basis.*

· **8.2 Exposure controls**
· **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.
Do not inhale gases / fumes / aerosols.
Avoid contact with the eyes and skin.
· **Respiratory protection:** *Use suitable respiratory protective device in case of insufficient ventilation.*
· **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

(Contd. on page 5)

Safety data sheet
according to 1907/2006/EC, Article 31

Printing date 03.06.2016 *Version number 1* *Revision: 03.06.2016*

Trade name: 140-B Euromix PU component B

(Contd. of page 4)

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

SECTION 9: Physical and chemical properties

· **9.1 Information on basic physical and chemical properties**	
· **General Information**	
· **Appearance:**	
Form:	*Fluid*
Colour:	*Dark brown*
· **Odour:**	*Light*
· **Change in condition**	
Melting point/Melting range:	*41 °C*
Boiling point/Boiling range:	*190 °C (DIN 53171)*
· **Flash point:**	*220 °C*
· **Ignition temperature:**	*400 °C (DIN 51794)*
· **Self-igniting:**	*Product is not self-igniting.*
· **Danger of explosion:**	*Product does not present an explosion hazard.*
· **Vapour pressure at 20 °C:**	*0,0002 hPa*
· **Density at 20 °C:**	*1,24 g/cm³ (DIN 51757)*
· **Vapour density**	*Not determined.*
· **Solubility in / Miscibility with water:**	*Reacts with water.*
· **Viscosity:**	
Dynamic at 20 °C:	*300 mPas (Brookfield)*
· **Solvent content:**	
Organic solvents:	*0,0 %*
Solids content:	*100 % (ISO 3251)*
· **9.2 Other information**	*No further relevant information available.*

SECTION 10: Stability and reactivity

· **10.1 Reactivity** *No further relevant information available.*
· **10.2 Chemical stability**
· **Thermal decomposition / conditions to be avoided:**
To avoid thermal decomposition do not overheat.
· **10.3 Possibility of hazardous reactions** *Reacts with alcohols, amines, aqueous acids and alkalis.*
· **10.4 Conditions to avoid** *No further relevant information available.*
· **10.5 Incompatible materials:** *Water*
· **10.6 Hazardous decomposition products:**
Possible in traces.
Nitrogen oxides
Carbon monoxide and carbon dioxide
Isocyanate

(Contd. on page 6)

Safety data sheet
according to 1907/2006/EC, Article 31

Printing date 03.06.2016 *Version number 1* *Revision: 03.06.2016*

Trade name: 140-B Euromix PU component B

(Contd. of page 5)

Hydrogen cyanide

SECTION 11: Toxicological information

· **11.1 Information on toxicological effects**
· **Acute toxicity**
Harmful if inhaled.

· **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:**
· **Skin corrosion/irritation**
Causes skin irritation.
· **Serious eye damage/irritation**
Causes serious eye irritation.
· **Respiratory or skin sensitisation**
May cause allergy or asthma symptoms or breathing difficulties if inhaled.
May cause an allergic skin reaction.
· **CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)**
· **Germ cell mutagenicity** *Based on available data, the classification criteria are not met.*
· **Carcinogenicity**
Suspected of causing cancer.
· **Reproductive toxicity** *Based on available data, the classification criteria are not met.*
· **STOT-single exposure**
May cause respiratory irritation.
· **STOT-repeated exposure**
May cause damage to organs through prolonged or repeated exposure.
· **Aspiration hazard** *Based on available data, the classification criteria are not met.*

SECTION 12: Ecological information

· **12.1 Toxicity**

· **Aquatic toxicity:**	
9016-87-9 diphenylmethanediisocyanate,isomeres and homologues	
EC50/24h	*>1000 mg/l (daphnia)*
EC50/3h	*>100 mg/l (AS)*
LC0/96	*>1000 mg/l (BR)*

· **12.2 Persistence and degradability** *No further relevant information available.*
· **12.3 Bioaccumulative potential** *No further relevant information available.*
· **12.4 Mobility in soil** *No further relevant information available.*
· **Additional ecological information:**
· **General notes:**
Do not allow product to reach ground water, water course or sewage system.
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.
Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water
· **12.5 Results of PBT and vPvB assessment**
· **PBT:** *Not applicable.*

(Contd. on page 7)

Safety data sheet
according to 1907/2006/EC, Article 31

Printing date 03.06.2016 *Version number 1* *Revision: 03.06.2016*

Trade name: 140-B Euromix PU component B

(Contd. of page 6)

· **vPvB:** *Not applicable.*
· **12.6 Other adverse effects** *No further relevant information available.*

SECTION 13: Disposal considerations

· **13.1 Waste treatment methods**
· **Recommendation**
Must not be disposed together with household garbage. Do not allow product to reach sewage system.
· **Waste disposal key:**
08 00 00 Waste paint and varnish containing organic solvents or other hazardous substances
08 04 10 Waste adhesives and sealants other than those mentioned in 08 04 09

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

SECTION 14: Transport information

· **14.1 UN-Number**	
· **ADR, ADN, IMDG, IATA**	*Void*
· **14.2 UN proper shipping name**	
· **ADR, ADN, IMDG, IATA**	*Void*
· **14.3 Transport hazard class(es)**	
· **ADR**	
· **Class**	*Void*
	not restricted
· **ADN/R Class:**	*Void*
· **IATA**	
· **Class**	*Void*
	Not restricted
· **14.4 Packing group**	
· **ADR, IMDG, IATA**	*Void*
· **14.5 Environmental hazards:**	
· **Marine pollutant:**	*No*
· **14.6 Special precautions for user**	*Not applicable.*
· **14.7 Transport in bulk according to Annex II of Marpol and the IBC Code**	*Not applicable.*
· **Transport/Additional information:**	*Not classified as hazardous under transport regulations.*
· **UN "Model Regulation":**	*Void*

(Contd. on page 8)

Safety data sheet
according to 1907/2006/EC, Article 31

Printing date 03.06.2016 *Version number 1* *Revision: 03.06.2016*

Trade name: 140-B Euromix PU component B

(Contd. of page 7)

SECTION 15: Regulatory information

· **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

· **National regulations:**

· **Technical instructions (air):**

Class	Share in %
I	50-100

· **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.

· **15.2 Chemical safety assessment:** *A Chemical Safety Assessment has not been carried out.*

SECTION 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 phrases**
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.
H332 Harmful if inhaled.
H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H335 May cause respiratory irritation.
H351 Suspected of causing cancer.
H373 May cause damage to organs through prolonged or repeated exposure.

· **Department issuing MSDS:** *R&D department*
· **Contact:** *Ing. T.W. Breeuwer*
· **Abbreviations and acronyms:**
RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)
ICAO: International Civil Aviation Organisation
ICAO-TI: Technical Instructions by the "International Civil Aviation Organisation" (ICAO)
ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
IMDG: International Maritime Code for Dangerous Goods
IATA: International Air Transport Association
GHS: Globally Harmonised System of Classification and Labelling of Chemicals
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
PBT: Persistent, Bioaccumulative and Toxic
SVHC: Substances of Very High Concern
vPvB: very Persistent and very Bioaccumulative
Acute Tox. 4: Acute toxicity, Hazard Category 4
Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2
Eye Irrit. 2: Serious eye damage/eye irritation, Hazard Category 2
Resp. Sens. 1: Sensitisation - Respirat., Hazard Category 1
Skin Sens. 1: Sensitisation - Skin, Hazard Category 1
Carc. 2: Carcinogenicity, Hazard Category 2

(Contd. on page 9)

Safety data sheet
according to 1907/2006/EC, Article 31

Printing date 03.06.2016 *Version number 1* *Revision: 03.06.2016*

Trade name: 140-B Euromix PU component B

(Contd. of page 8)

STOT SE 3: Specific target organ toxicity - Single exposure, Hazard Category 3
STOT RE 2: Specific target organ toxicity - Repeated exposure, Hazard Category 2