# eurocol

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## Safety data sheet according to UK REACH

Printing date 16.09.2024

Version number 2

Revision: 16.09.2024

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

## Trade name: 350-B LiquidDesign Component B Hardener

· CAS Number:

28182-81-2

- **1.2 Relevant identified uses of the substance or mixture and uses advised against** *No further relevant information available.*
- · Application of the substance / preparation Hardener
- · 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 6271620 E-mail address: info.eurocol@forbo.com

Website: www.eurocol.com

<sup>•</sup> 1.4 Emergency telephone number:

In case of emergency please contact the Dutch National Poison Control, telephone number: 0031-(0)88-755 8000 (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 Sens. 1 H317 May cause an allergic skin reaction.

STOT SE 3 H335 May cause respiratory irritation.

· 2.2 Label elements

<sup>-</sup> Labelling according to Regulation (EC) No 1272/2008

The substance is classified and labelled according to the GB CLP regulation. • Hazard pictograms



· Signal word Warning

• **Hazard-determining components of labelling:** Aliphatic polyisocyanate hexamethylene-di-isocyanate

Hazard statements H332 Harmful if inhaled. H317 May cause an allergic skin reaction. H335 May cause respiratory irritation.

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• **Precautionary statements** P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

P280 Wear protective gloves.

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P312 Call a POISON CENTER if you feel unwell.

P333+P313 If skin irritation or rash occurs: Get medical advice/attention.

P403+P233 Store in a well-ventilated place. Keep container tightly closed.

<sup>•</sup> Additional information:

Contains 0 % of components with unknown hazards to the aquatic environment.

<sup>•</sup> 2.3 Other hazards

· Results of PBT and vPvB assessment

- · **PBT:** Not applicable.
- **vPvB:** Not applicable.

#### **SECTION 3: Composition/information on ingredients**

- 3.1 Chemical characterisation: Substances
- CAS No. Description

28182-81-2 Aliphatic polyisocyanate

## **SECTION 4: First aid measures**

#### · 4.1 Description of first aid measures

<sup>•</sup> General information:

Immediately remove any clothing soiled by the product.

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.

- Remove person to fresh air, keep warm, have rest, if breathing difficulties, doctor's help is required.
- After skin contact:

Wash with soap and water. Remove contaminated clothing.

- Consult a doctor in case of complaints.
- After eye contact: Rinse opened eye for several minutes under running water. Then consult a doctor.
- After swallowing:

Do not let the victim vomit. After swallowing rinse the mouth thoroughly with water (only when the person fully conscious) and call for immediate help. Let the victim rest.

- · Information for doctor: First aid, disinfection, sympfomatic treatment.
- **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**

- <sup>·</sup> 5.1 Extinguishing media
- Suitable extinguishing agents:

Carbon dioxide (CO2), foam, extinguishing powder. For larger fires also water spray jet.

- For safety reasons unsuitable extinguishing agents: Water with full jet
- 5.2 Special hazards arising from the substance or mixture

On burning: release of toxic and corrosive gases / vapors (isocyanates, nitrous vapors, carbon monoxide / carbon dioxide). Hydrogen cyanide (prussic acid).

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(Contd. of page 2) In case of fire in the immediate vicinity, increase in pressure, risk of bursting. Cool containers threatened by fire with water and if possible remove from the danger area.

# 5.3 Advice for firefighters Do not allow contaminated fire extinguishing water to penetrate into the soil, groundwater or surface water.

#### · Protective equipment:

Wear self-contained respiratory protective device. Wear chemical protective clothing.

### **SECTION 6: Accidental release measures**

• 6.1 Personal precautions, protective equipment and emergency procedures Particular danger of slipping on leaked/spilled product. Wear protective equipment. Keep unprotected persons away. Keep away from ignition sources. Ensure adequate aeration and ventilation.

- 6.2 Environmental precautions: Do not let product enter drains. Avoid subsoil penetration.
- 6.3 Methods and material for containment and cleaning up:
- Ensure adequate ventilation.

Remove mechanically: Cover remaisns with damp, liquid-binding material (e.g. sawdust, chemical binders on a calcium silicate-hydrate base, sand). After approx. 1 hour, take up and place in refuse container. Don not close (CO2-development!) Keep damp and allow to stand in a safe place outdoors for several days.

Spillage area can be sanitized with the following recommended sanitizing solution: Desinfectant solution 1: 8-10% sodium carbonate and 2% liquid soap in water.

Disinfectant 2: 30% liquid commercial detergent (contains momomehtanolamine) 70% water.

• **6.4 Reference to other sections** 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
- · 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 dry, cool and very well ventilated place.
- Information about storage in one common storage facility: Do not store togehter with foodstuffs and animal fodder.
- Further information about storage conditions: Recommended storage temperature between 15 and 25°C.
- · 7.3 Specific end use(s) No further relevant information available.

### **SECTION 8: Exposure controls/personal protection**

· 8.1 Control parameters

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

· Ingredients with limit values that require monitoring at the workplace: Not required.

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(Contd. of page 3) 28182-81-2 Aliphatic polyisocyanate Inhalative DNEL Inhalative long terme 0.5 /mg/m<sup>3</sup> (worker) · PNECs 28182-81-2 Aliphatic polyisocyanate PNEC g/kg 53.2 g/kg (Soil) 266.7 g/kg (Fresh Water Sediment) PNEC ug/l 1,270 µg/l (Fresh Water) 38.28 mg/l (Rioolwaterzuiveringsinstallaties) PNEC mg/l PNEC mg/kg >0.0026 mg/kg /dw (Soil) · 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. <sup>•</sup> Respiratory protection: Use only in ventilated workplace. Combinationfilter A2-P2 (EN529). In case of hypersensitivity of the respiratory tract (asthma, chronic bronchitis) handling of the product is not recommended. 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 dependent on the penetration times, rates of diffusion and degradation. Material of gloves 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. 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. <sup>•</sup> For prolonged contact gloves made of the following materials are suitable: Butyl rubber 0,5 mm. Penetration time > 480 min, Fluorocarbon rubber (Viton) 0,4 mm. Penetration time  $\geq$  480 min. Advice: remove contaminated gloves. • Eye protection: Tightly sealed goggles by risk of splashing. Body protection: Protective work clothing It is not recommended to work with this product in case of skin hypersensitivity. **SECTION 9: Physical and chemical properties** 

- 9.1 Information on basic physical and chemical properties
- General Information
- Appearance:
- Form:

Fluid

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Colour:	Colourless
Odour:	Odourless
· Odour threshold:	Not determined.
<sup>·</sup> pH-value:	Not determined.
<sup>·</sup> Change in condition	
Melting point/freezing point:	Undetermined.
Initial boiling point and boiling range	Undetermined.
· Flash point:	Not applicable.
· Flammability (solid, gas):	Not applicable.
· Decomposition temperature:	Not determined.
<sup>·</sup> Ignition temperature:	Not determined.
· Explosive properties:	Product does not present an explosion hazard.
· Explosion limits:	
Lower:	Not determined.
Upper:	Not determined.
· Vapour pressure:	Not determined.
<sup>·</sup> Density at 20 °C:	1.17 g/cm³
· Relative density	Not determined.
<sup>·</sup> Vapour density	Not determined.
· Evaporation rate	Not determined.
<sup>·</sup> Solubility in / Miscibility with	
water:	Not determined.
· Partition coefficient: n-octanol/water:	Not determined.
· Viscosity:	
Dynamic:	Not determined.
Kinematic:	Not determined.
Solids content:	0.0 %
<sup>•</sup> 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:
- No decomposition if used according to specifications.
- 10.3 Possibility of hazardous reactions No dangerous reactions known.
- **10.4 Conditions to avoid** *No further relevant information available.*
- · 10.5 Incompatible materials: No further relevant information available.
- **10.6 Hazardous decomposition products:** *No dangerous decomposition products known.*

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### **SECTION 11: Toxicological information**

#### · 11.1 Information on toxicological effects

 Acute toxicity Harmful if inhaled.

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

ATE (Acute Toxicity Estimates)

Inhalative LC50/4 h 1.52 mg/l

#### 28182-81-2 Aliphatic polyisocyanate

Oral	LD50	>2,500 mg/kg (rat)
Dermal	LD50	>2,000 mg/kg (rat)
		>2,000 mg/kg (rabbit)
1.1.1.1.1.1.1.	1050/11	

Inhalative LC50/4 h 0.39 mg/kg (rat)

<sup>•</sup> Primary irritant effect:

Skin corrosion/irritation Based on available data, the classification criteria are not met.

- Serious eye damage/irritation Based on available data, the classification criteria are not met.
- <sup>•</sup> Respiratory or skin sensitisation
- May cause an allergic skin reaction.
- · Additional toxicological information:
- · CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)
- Germ cell mutagenicity Based on available data, the classification criteria are not met.
- · Carcinogenicity Based on available data, the classification criteria are not met.
- Reproductive toxicity Based on available data, the classification criteria are not met.

· STOT-single exposure

- May cause respiratory irritation.
- STOT-repeated exposure Based on available data, the classification criteria are not met.
- · Aspiration hazard Based on available data, the classification criteria are not met.

## **SECTION 12: Ecological information**

- · 12.1 Toxicity
- · Aquatic toxicity:
- 28182-81-2 Aliphatic polyisocyanate

ErC50/72 h >1,000 mg/l (Demodesmus subspicatus)

EC50/72 h >1,000 mg/l (Selenanastrum capricornutum)

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 discharge rinse water arising from cleaning tools into sewers or surface water. Avoid transfer into the environment.

- <sup>•</sup> 12.5 Results of PBT and vPvB assessment
- · **PBT:** Not applicable.
- · vPvB: Not applicable.
- 12.6 Other adverse effects No further relevant information available.

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### **SECTION 13: Disposal considerations**

#### · 13.1 Waste treatment methods

<sup>-</sup> Recommendation

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

<sup>·</sup> Uncleaned packaging:

• **Recommendation:** Disposal must be made according to official regulations.

SECTION 14: Transport information	on .	
· 14.1 UN-Number · ADR, IMDG, IATA	Void	
<ul> <li>14.2 UN proper shipping name</li> <li>ADR, IMDG, IATA</li> </ul>	Void	
<ul> <li>14.3 Transport hazard class(es)</li> </ul>		
· ADR, ADN, IMDG, IATA · Class	Void	
<ul> <li>14.4 Packing group</li> <li>ADR, IMDG, IATA</li> </ul>	Void	
· 14.5 Environmental hazards:	Not applicable.	
<sup>·</sup> 14.6 Special precautions for user	Not applicable.	
<ul> <li>14.7 Transport in bulk according to Anne Marpol and the IBC Code</li> </ul>	x II of Not applicable.	
· UN "Model Regulation":	Void	

## **SECTION 15: Regulatory information**

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

- <sup>·</sup> Poisons Act
- · Regulated explosives precursors
- None of the ingredients is listed.
- <sup>·</sup> Regulated poisons

None of the ingredients is listed.

· Reportable explosives precursors

None of the ingredients is listed.

#### Reportable poisons

None of the ingredients is listed.

- · Directive 2012/18/EU
- · Named dangerous substances ANNEX I Substance is not listed.
- **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

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	on is based on our present knowledge. However, this shall not constitute a guarante roduct features and shall not establish a legally valid contractual relationship.
Department i	ssuing SDS: R&D department
Contact: Ing.	T.W. Breeuwer
•	s and acronyms:
	atif au transport international des marchandises dangereuses par route (European Agreement Concerni
	iage of Dangerous Goods by Road)
	al Maritime Code for Dangerous Goods
	al Air Transport Association
	armonised System of Classification and Labelling of Chemicals
	bstracts Service (division of the American Chemical Society)
	o-Effect Level (UK REACH)
	No-Effect Concentration (UK REACH)
LD50: Lethal dos	centration, 50 percent
	e, so percent Bioaccumulative and Toxic
,	stent and very Bioaccumulative
	ty estimate values
	ite toxicity – Category 4
	n sensitisation – Category 1
	cific target organ toxicity (single exposure) – Category 3
	red to the previous version altered.