

## Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 30.01.2023

Version number 4 (replaces version 3)

Revision: 30.01.2023

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

**1.1 Product identifier****Trade name: 021 Euroblock Reno LE - component A****Article number:** 021A- LE**UFI:** KUFX-N9UG-3000-131M**1.2 Relevant identified uses of the substance or mixture and uses advised against***No further relevant information available.***Application of the substance / preparation** 2-Component primer**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)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**

Skin Irrit. 2 H315 Causes skin irritation.

Eye Irrit. 2 H319 Causes serious eye irritation.

Skin Sens. 1 H317 May cause an allergic skin reaction.

Aquatic Chronic 2 H411 Toxic to aquatic life with long lasting effects.

**2.2 Label elements****Labelling according to Regulation (EC) No 1272/2008***The product is classified and labelled according to the GB CLP regulation.***Hazard pictograms**

GHS07 GHS09

**Signal word** Warning**Hazard-determining components of labelling:**

reaction product: bisphenol-F-epichlorhydrin epoxy resin

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*bis[4-(2,3-epoxypropoxy)phenyl]propane*

*Reaction products: Hexane-1,6-diol with 2-(chlormethyl)oxirane (1:2)*

· **Hazard statements**

*H315 Causes skin irritation.*

*H319 Causes serious eye irritation.*

*H317 May cause an allergic skin reaction.*

*H411 Toxic to aquatic life with long lasting effects.*

· **Precautionary statements**

*P273 Avoid release to the environment.*

*P280 Wear protective gloves / eye protection / face 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.*

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

*P337+P313 If eye irritation persists: Get medical advice/attention.*

*P362+P364 Take off contaminated clothing and wash it before reuse.*

· **Additional information:**

*Contains epoxy constituents. May produce an allergic reaction.*

*Restricted to professional users.*

· **2.3 Other hazards**

· **Results of PBT and vPvB assessment**

· **PBT:** *Not applicable.*

· **vPvB:** *Not applicable.*

· **Determination of endocrine-disrupting properties**

*The product does not contain substances with endocrine disrupting properties.*

## SECTION 3: Composition/information on ingredients

· **3.2 Mixtures**

· **Description:** *Epoxy resin*

· **Dangerous components:**

CAS: 1675-54-3 EINECS: 216-823-5	<i>bis[4-(2,3-epoxypropoxy)phenyl]propane</i> ⚠ Aquatic Chronic 2, H411; ⚠ Acute Tox. 4, H312; Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317, EUH205 Specific concentration limits: Eye Irrit. 2; H319: C ≥ 5 % Skin Irrit. 2; H315: C ≥ 5 %	>25-50%
EC number: 701-263-0	<i>Bisphenol-F-Epoxyhars</i> ⚠ Aquatic Chronic 2, H411; ⚠ Acute Tox. 4, H312; Skin Irrit. 2, H315; Skin Sens. 1, H317	>25-50%
CAS: 933999-84-9 EC number: 618-939-5	<i>Reaction products: Hexane-1,6-diol with 2-(chlormethyl)oxirane (1:2)</i> ⚠ Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317; Aquatic Chronic 3, H412	>10-25%

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

## SECTION 4: First aid measures

· **4.1 Description of first aid measures**

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

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- **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 rinse with water.  
Wash with soap and water. Remove contaminated clothing.*

- **After eye contact:**

*After eye contact rinse the eyes immediately with open lids 10 to 15 minutes with running water. Remove contact lenses, if possible. Keep on rinsing. Consult an ophthalmologist.*

- **After swallowing:**

*Rinse mouth with water and then drink plenty of water, consult physician immediately. 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.*

- **4.2 Most important symptoms and effects, both acute and delayed**

*After eyecontact: Irritating to eyes.  
After inhalation: Significant effects or critical hazards are not known.  
Skin contact: irritating to skin. May cause sensitisation by skin contact.  
Ingestion: causes irritation to mouth, throat and stomach.*

- **4.3 Indication of any immediate medical attention and special treatment needed**

*Symptomatic treatment.*

## SECTION 5: Firefighting measures

- **5.1 Extinguishing media**

· **Suitable extinguishing agents:** *CO<sub>2</sub>, powder or water haze. Fight larger fire with alcohol resistant foam.*

· **For safety reasons unsuitable extinguishing agents:** *Water spray*

- **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:**

*Wear self-contained respiratory protective device.  
Wear fully protective suit.*

- **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** *Wear protective clothing.*

- **6.2 Environmental precautions:**

*Do not allow to penetrate the ground/soil.  
Inform respective authorities in case of seepage into water course or sewage system.*

- **6.3 Methods and material for containment and cleaning up:**

*Take up with liquid-binding substances (sand, diatomaceous earth, acid binder, universal binder).  
Dispose contaminated material as waste according to item 13.  
Ensure adequate ventilation.*

- **6.4 Reference to other sections**

*See Section 7 for information on safe handling.  
See Section 8 for information on personal protection equipment.*

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See Section 13 for disposal information.

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### SECTION 7: Handling and storage

- **7.1 Precautions for safe handling** *Ensure good ventilation/exhaustion at the workplace.*
- **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:**  
*Do not store together with foodstuffs and animal fodder.*
- **Further information about storage conditions:**  
*Recommended storage temperature between 10 and 30 °C.  
Store under cool and dry conditions in original packaging.*
- **7.3 Specific end use(s)** *No further relevant information available.*

### SECTION 8: Exposure controls/personal protection

- **8.1 Control parameters**
- **Ingredients with limit values that require monitoring at the workplace:**  
*The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.*
- **DNELs**  
*None*

#### 1675-54-3 bis[4-(2,3-epoxypropoxy)phenyl]propane

Oral	DNEL	4.93 mg/kg (Consumer)
Dermal	DNEL dermal long term	0.75 /mg/kg/d (wrk)
Inhalative	DNEL Inhalative long terme	4.93 /mg/m <sup>3</sup> (wrk)

#### Bisphenol-F-Epoxyhars

Dermal	DNEL dermal long term	104.15 /mg/kg/bw (wrk)
Inhalative	DNEL Inhalative long terme	29.39 /mg/m <sup>3</sup> (wrk)

#### 933999-84-9 Reaction products: Hexane-1,6-diol with 2-(chlormethyl)oxirane (1:2)

Dermal	DNEL dermal long term	6 /mg/kg/lg/dag (sys)
Inhalative	DNEL Inhalative long terme	10.57 /mg/m <sup>3</sup> (sys)

- **PNECs**

#### 1675-54-3 bis[4-(2,3-epoxypropoxy)phenyl]propane

PNEC mg/l	0.001 mg/l (Sea Water)
	0.006 mg/l (Fresh Water)
PNEC mg/kg	0 mg/kg (Soil)
	0.065 mg/kg (Sea Water)
	0.034 mg/kg (Sea Water Sediment)
	0.006 mg/kg (Fresh Water)
	0.341 mg/kg (Fresh Water Sediment)

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#### **Bisphenol-F-Epoxyhars**

PNEC mg/l	0 mg/l (Sea Water)
	0.029 mg/l (Sea Water Sediment)
	0.003 mg/l (Fresh Water)
PNEC mg/kg	0.237 mg/kg (Soil)
	0.294 mg/kg (Fresh Water Sediment)

- **Additional information:** *The lists valid during manufacture were used as basis.*
- **8.2 Exposure controls**
- **Appropriate engineering controls** *No further data; see item 7.*
- **Individual protection measures, such as 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:** *Not necessary if room is well-ventilated.*
- **Hand protection**



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**  
*Gloves that protect against chemicals with the CE marking including the four-digit control number may be worn when handling chemical substances. Protective gloves against chemicals must be selected in their design depending on the concentration of the hazardous material and quantity, specifically for the workplace. It is recommended to inquire about the chemical resistance of the above-mentioned protective gloves for special use with the glove manufacturer. Recommendation to EN 374: amendment of butyl rubber/nitrile rubber > (0.4 mm) Contaminated gloves must be removed: for short term use or splash protection. For permanent exposure: Viton (0.4mm) breakthrough time > 30 min.*
- **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:** *Viton gloves.*
- **Eye/face protection**



Tightly sealed goggles

*Tightly sealed goggles by risk of splashing.*

- **Body protection:** *Protective work clothing*

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### SECTION 9: Physical and chemical properties

#### · 9.1 Information on basic physical and chemical properties

##### · General Information

· Physical state	<i>Fluid</i>
· Colour:	<i>Transparent</i>
· Odour:	<i>Weak</i>
· Odour threshold:	<i>Not determined.</i>
· Melting point/freezing point:	<i>Undetermined.</i>
· Boiling point or initial boiling point and boiling range	<i>Undetermined.</i>
· Flammability	<i>Not applicable.</i>
· Lower and upper explosion limit	
· Lower:	<i>Not determined.</i>
· Upper:	<i>Not determined.</i>
· Flash point:	<i>&gt;93 °C</i>
· Decomposition temperature:	<i>Not determined.</i>
· pH	<i>Not determined.</i>
· Viscosity:	
· Kinematic viscosity	<i>Not determined.</i>
· Dynamic at 25 °C:	<i>540-820 mPas</i>
· Solubility	
· water:	<i>Not soluble and miscible.</i>
· Partition coefficient n-octanol/water (log value)	<i>Not determined.</i>
· Vapour pressure:	<i>Not determined.</i>
· Density and/or relative density	
· Density at 23 °C:	<i>1.15 g/cm<sup>3</sup></i>
· Relative density	<i>Not determined.</i>
· Vapour density	<i>Not determined.</i>

#### · 9.2 Other information

· Appearance:	
· Form:	<i>Fluid</i>
· Important information on protection of health and environment, and on safety.	
· Auto-ignition temperature:	<i>Product is not self-igniting.</i>
· Explosive properties:	<i>Product does not present an explosion hazard.</i>
· Change in condition	
· Evaporation rate	<i>Not determined.</i>

#### · Information with regard to physical hazard classes

· Explosives	<i>Void</i>
	<i>Void</i>
· Flammable gases	<i>Void</i>
	<i>Void</i>
· Aerosols	<i>Void</i>
	<i>Void</i>
· Oxidising gases	<i>Void</i>
	<i>Void</i>

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· Gases under pressure	Void
	Void
· Flammable liquids	Void
	Void
· Flammable solids	Void
	Void
· Self-reactive substances and mixtures	Void
	Void
· Pyrophoric liquids	Void
	Void
· Pyrophoric solids	Void
	Void
· Self-heating substances and mixtures	Void
	Void
· Substances and mixtures, which emit flammable gases in contact with water	Void
	Void
· Oxidising liquids	Void
	Void
· Oxidising solids	Void
	Void
· Organic peroxides	Void
	Void
· Corrosive to metals	Void
	Void
· Desensitised explosives	Void
	Void

### 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**  
*May produce violent reactions with bases and numerous organic substances including alcohols and amines.*
- **10.4 Conditions to avoid** *No further relevant information available.*
- **10.5 Incompatible materials:** *No further relevant information available.*
- **10.6 Hazardous decomposition products:** *Irritant gases/vapours*

### SECTION 11: Toxicological information

- **11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008**
- **Acute toxicity** *Based on available data, the classification criteria are not met.*

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

#### **1675-54-3 bis[4-(2,3-epoxypropoxy)phenyl]propane**

Oral LD50 &lt;5,000 mg/kg (rat)

Dermal LD50 &lt;2,000 mg/kg (rat)

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**Bisphenol-F-Epoxyhars**

Oral LD50 &lt;5,000 mg/kg (rat)

Dermal LD50 &lt;2,000 mg/kg (rat)

**933999-84-9 Reaction products: Hexane-1,6-diol with 2-(chlormethyl)oxirane (1:2)**

Oral LD50 2,189 mg/kg (rat)

- **Skin corrosion/irritation** Causes skin irritation.
- **Serious eye damage/irritation** Causes serious eye irritation.
- **Respiratory or skin sensitisation** May cause an allergic skin reaction.
- **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** Based on available data, the classification criteria are not met.
- **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.

**11.2 Information on other hazards****· Endocrine disrupting properties**

None of the ingredients is listed.

**SECTION 12: Ecological information****· 12.1 Toxicity****· Aquatic toxicity:****1675-54-3 bis[4-(2,3-epoxypropoxy)phenyl]propane**

ErC50/72 h 9.4 mg/l (Se)

LC50/96 h 1.5 mg/l (OM)

**933999-84-9 Reaction products: Hexane-1,6-diol with 2-(chlormethyl)oxirane (1:2)**

LC50/96h 30 mg/l (leuciscus idus)

EC50/48 h 47 mg/l (daphnia)

**· 12.2 Persistence and degradability****933999-84-9 Reaction products: Hexane-1,6-diol with 2-(chlormethyl)oxirane (1:2)**

OECD 301/D EEC 92/69/V, C.4-E 47 % / 28 d (Not specified)

**· 12.3 Bioaccumulative potential** No further relevant information available.**· 12.4 Mobility in soil** No further relevant information available.**· 12.5 Results of PBT and vPvB assessment**· **PBT:** Not applicable.· **vPvB:** Not applicable.**· 12.6 Endocrine disrupting properties**

The product does not contain substances with endocrine disrupting properties.

**· 12.7 Other adverse effects**· **Remark:** Toxic for fish**· Additional ecological information:****· General notes:**

Danger to drinking water if even small quantities leak into the ground.

Do not discharge into ground water, in surface water or in the sewer system.

Also poisonous for fish and plankton in water bodies.

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Toxic for aquatic organisms

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### 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. Uncured product: special waste. Cured product, for example after mixing with the correct amount of hardener: household or industrial waste. Pay attention to local regulations.

##### · European waste catalogue

08 04 09*	waste adhesives and sealants containing organic solvents or other hazardous substances
15 01 10*	packaging containing residues of or contaminated by hazardous substances
HP4	Irritant - skin irritation and eye damage
HP6	Acute Toxicity
HP13	Sensitising
HP14	Ecotoxic

##### · Uncleaned packaging:

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

· Recommended cleansing agents: Warm water, if necessary together with cleansing agents.

### SECTION 14: Transport information

#### · 14.1 UN number or ID number

##### · ADR, IMDG, IATA

UN3082

#### · 14.2 UN proper shipping name

##### · ADR

3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (reaction product: bisphenol-F-epichlorhydrin epoxy resin)

##### · IMDG

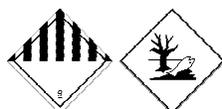
ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (reaction product: bisphenol-F-epichlorhydrin epoxy resin), MARINE POLLUTANT

##### · IATA

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (reaction product: bisphenol-F-epichlorhydrin epoxy resin)

#### · 14.3 Transport hazard class(es)

##### · ADR, IMDG, IATA



##### · Class

9 Miscellaneous dangerous substances and articles.

##### · Label

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· 14.4 Packing group · ADR, IMDG, IATA	III
· 14.5 Environmental hazards: · Marine pollutant: · Special marking (ADR): · Special marking (IATA):	Symbol (fish and tree) Symbol (fish and tree) Symbol (fish and tree)
· 14.6 Special precautions for user  · Hazard identification number (Kemler code): · EMS Number: · Stowage Category	Warning: Miscellaneous dangerous substances and articles. 90 F-A,S-F A
· 14.7 Maritime transport in bulk according to IMO instruments	Not applicable.
· Transport/Additional information:	
· ADR · Limited quantities (LQ) · Excepted quantities (EQ)  · Transport category · Tunnel restriction code	5L Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml 3 -
· IMDG · Limited quantities (LQ) · Excepted quantities (EQ)	5L Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
· UN "Model Regulation":	UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (REACTION PRODUCT: BISPHENOL-F-EPICHLORHYDRIN EPOXY RESIN), 9, III

## SECTION 15: Regulatory information

- 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
- Directive 2012/18/EU
- Named dangerous substances - ANNEX I *None of the ingredients is listed.*
- Seveso category E2 *Hazardous to the Aquatic Environment*
- Qualifying quantity (tonnes) for the application of lower-tier requirements *200 t*
- Qualifying quantity (tonnes) for the application of upper-tier requirements *500 t*
- REGULATION (EC) No 1907/2006 ANNEX XVII *Conditions of restriction: 3*

· DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II

*None of the ingredients is listed.*

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· **REGULATION (EU) 2019/1148**

· **Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))**

*None of the ingredients is listed.*

· **Annex II - REPORTABLE EXPLOSIVES PRECURSORS**

*None of the ingredients is listed.*

· **Regulation (EC) No 273/2004 on drug precursors**

*None of the ingredients is listed.*

· **Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors**

*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**

*H312 Harmful in contact with skin.*

*H315 Causes skin irritation.*

*H317 May cause an allergic skin reaction.*

*H319 Causes serious eye irritation.*

*H411 Toxic to aquatic life with long lasting effects.*

*H412 Harmful to aquatic life with long lasting effects.*

*EUH205 Contains epoxy constituents. May produce an allergic reaction.*

· **Department issuing SDS:** *R&D department*

· **Contact:** *Ing. T.W. Breeuwer*

· **Version number of previous version:** *3*

· **Abbreviations and acronyms:**

*ADR: Accord relatif au transport international 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)*

*DNEL: Derived No-Effect Level (UK REACH)*

*PNEC: Predicted No-Effect Concentration (UK REACH)*

*LC50: Lethal concentration, 50 percent*

*LD50: Lethal dose, 50 percent*

*PBT: Persistent, Bioaccumulative and Toxic*

*vPvB: very Persistent and very Bioaccumulative*

*Acute Tox. 4: Acute toxicity – Category 4*

*Skin Irrit. 2: Skin corrosion/irritation – Category 2*

*Eye Irrit. 2: Serious eye damage/eye irritation – Category 2*

*Skin Sens. 1: Skin sensitisation – Category 1*

*Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2*

*Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3*