

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

Printing date 25.09.2018

Version number 9

Revision: 25.09.2018

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

- **1.1 Product identifier**
- **Trade name:** 021 Euroblock Reno LE - Härter
- **1.2 Relevant identified uses of the substance or mixture and uses advised against**
No further relevant information available.
- **Application of the substance / the mixture** Hardening agent/ Curing agent
- **1.3 Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**
FORBO Eurocol Deutschland GmbH
August-Roebling-Str. 2
D-99091 Erfurt
Tel.: +49 (0)361 73041-0
Fax: +49 (0)361 73041-92
Website: <http://www.forbo-bonding.de>
- **Further information obtainable from:**
Laboratory
Elisabeth Reinhardt
Elisabeth.Reinhardt@forbo.com
- **1.4 Emergency telephone number:** GGIZ +49-361-730730 (for Germany)

SECTION 2: Hazards identification

- **2.1 Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008**
Acute Tox. 4 H302 Harmful if swallowed.
Skin Corr. 1B H314 Causes severe skin burns and eye damage.
Eye Dam. 1 H318 Causes serious eye damage.
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 CLP regulation.
- **Hazard pictograms**



GHS05 GHS07 GHS09

- **Signal word** Danger
- **Hazard-determining components of labelling:**
Propylidynetrimethanol, propoxylated, reaction products with ammonia
3-aminomethyl-3,5,5-trimethylcyclohexylamine
Phenol, styrenated
m- Xylenediamine
2,2,4-trimethylhexane-1,6-diamine
2,4,6-tris(dimethylaminomethyl)phenol
- **Hazard statements**
H302 Harmful if swallowed.
H314 Causes severe skin burns and eye damage.

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*H317 May cause an allergic skin reaction.**H411 Toxic to aquatic life with long lasting effects.***· Precautionary statements***P260 Do not breathe dusts or mists.**P264 Wash thoroughly after handling.**P273 Avoid release to the environment.**P280 Wear protective gloves/protective clothing/eye protection/face protection.**P301+P330+P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting.**P310 Immediately call a POISON CENTER/doctor.**P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.**P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.**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.**P405 Store locked up.**P501 Dispose of contents/container in accordance with local/regional/national/international regulations.***· Additional information:***EUH071 Corrosive to the respiratory tract.***· 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:** Polyamine hardener**· Dangerous components:**

CAS: 61788-44-1 EINECS: 262-975-0 Reg.nr.: 02-2119629611-43	Phenol, styrenated ⚠ Aquatic Chronic 2, H411; ⚠ Skin Irrit. 2, H315; Skin Sens. 1, H317	25-<50%
CAS: 39423-51-3 NLP: 500-105-6	Propylidynetrimethanol, propoxylated, reaction products with ammonia ⚠ Eye Dam. 1, H318; ⚠ Aquatic Chronic 2, H411; ⚠ Acute Tox. 4, H302; Acute Tox. 4, H312	≥25-<30%
CAS: 1477-55-0 EINECS: 216-032-5	m- Xylenediamine ⚠ Acute Tox. 4, H302; Acute Tox. 4, H332; Skin Sens. 1, H317; Aquatic Chronic 3, H412	10-<20%
CAS: 2855-13-2 EINECS: 220-666-8 Index number: 612-067-00-9	3-aminomethyl-3,5,5-trimethylcyclohexylamine ⚠ Acute Tox. 3, H331; ⚠ Skin Corr. 1B, H314; ⚠ Aquatic Acute 1, H400; ⚠ Acute Tox. 4, H302; Acute Tox. 4, H312; Skin Sens. 1, H317; Aquatic Chronic 3, H412	10-<20%
CAS: 25513-64-8	2,2,4-trimethylhexane-1,6-diamine ⚠ Skin Corr. 1B, H314; Eye Dam. 1, H318; ⚠ Acute Tox. 4, H302; Skin Sens. 1, H317	≥0.1-<1%
CAS: 61788-46-3 EINECS: 262-977-1 Index number: 612-285-00-4	Amines, coco alkyl ⚠ STOT RE 2, H373; Asp. Tox. 1, H304; ⚠ Skin Corr. 1B, H314; Eye Dam. 1, H318; ⚠ Aquatic Acute 1, H400; Aquatic Chronic 1, H410; ⚠ Acute Tox. 4, H302; STOT SE 3, H335	≥0.25-<1%

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Trade name: 021 Euroblock Reno LE - Härter

CAS: 90-72-2

EINECS: 202-013-9

Index number: 603-069-00-0

2,4,6-tris(dimethylaminomethyl)phenol

 Skin Corr. 1C, H314; Eye Dam. 1, H318;  Acute Tox. 4, H302; Skin Sens. 1B, H317

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≥0.1- <1%

· **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.

· After inhalation:

Supply fresh air; consult doctor in case of complaints.

In case of unconsciousness place patient stably in side position for transportation.

· After skin contact:

Immediately wash with water and soap and rinse thoroughly.

Immediately rinse with water.

· **After eye contact:** Rinse opened eye for several minutes under running water. Then consult a doctor.

· After swallowing:

A person vomiting while laying on their back should be turned onto their side.

Do not induce vomiting; call for medical help immediately.

Drink plenty of water and provide fresh air. Call for a doctor 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 spray. Fight larger fires with water spray or alcohol resistant foam.

Use fire extinguishing methods suitable to surrounding conditions.

· **For safety reasons unsuitable extinguishing agents:** Water with full jet

· 5.2 Special hazards arising from the substance or mixture

Formation of toxic gases is possible during heating or in case of fire.

In case of fire, the following can be released:

Carbon monoxide and carbon dioxide

Nitrogen oxides (NO_x)

· 5.3 Advice for firefighters

· Protective equipment:

Do not inhale explosion gases or combustion gases.

Wear self-contained respiratory protective device.

SECTION 6: Accidental release measures

· 6.1 Personal precautions, protective equipment and emergency procedures

Wear protective equipment. Keep unprotected persons away.

Ensure adequate ventilation

· 6.2 Environmental precautions:

Do not allow to enter drains/ surface or ground water.

Inform respective authorities in case of seepage into water course or sewage system.

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- **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.
- **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**
Ensure good ventilation/exhaustion at the workplace.
Prevent formation of aerosols.
- **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:** Prevent any seepage into the ground.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:**
Keep container tightly sealed.
Store in cool, dry conditions in well sealed receptacles.
- **Recommended storage temperature:** +10 °C - +25 °C
- **Storage class:** 8 A
- **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:**
The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

· DNELs

61788-44-1 Phenol, styrenated

Dermal	DNEL (worker)	6.25 mg/kg bw/day (worker)
Inhalative	DNEL (worker)	11.02 mg/m ³ (worker)

39423-51-3 Propylidynetrimethanol, propoxylated, reaction products with ammonia

Dermal	DNEL (worker)	1.6 mg/kg bw/day (worker)
Inhalative	DNEL (worker)	14 mg/m ³ (worker)

2855-13-2 3-aminomethyl-3,5,5-trimethylcyclohexylamine

Inhalative	DNEL (worker)	0.073 mg/m ³ (worker)
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· PNECs

2855-13-2 3-aminomethyl-3,5,5-trimethylcyclohexylamine

PNEC aqua	6 mg/l (water)
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- **Additional information:** The lists valid during the making were used as basis.

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- **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.
Avoid contact with the eyes and skin.
- **Respiratory protection:**



Use suitable respiratory protective device in case of insufficient ventilation.

- **Recommended filter device for short term use: Filter A**
- **Protection of hands:**



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

- **Material of gloves**
PVC gloves
Butyl rubber, BR
Nitrile rubber, NBR
PVA gloves
- **Penetration time of glove material**
Penetration time > 30 min
The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
- **Eye protection:**



Tightly sealed goggles

- **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:	Light brown
Odour:	Amine-like
- **pH-value:** Undetermined.
- **Change in condition**

Melting point/freezing point:	Undetermined.
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Initial boiling point and boiling range: Undetermined.	
· Flash point:	99 °C
· Flammability (solid, gas):	Not applicable.
· Ignition temperature:	Undetermined.
· Decomposition temperature:	Undetermined.
· Auto-ignition temperature:	Product is not selfigniting.
· Explosive properties:	Product does not present an explosion hazard.
· Vapour pressure:	Not determined.
· Density at 20 °C:	1.04 g/cm ³
· Evaporation rate	Not determined.
· Solubility in / Miscibility with water:	Not determined.
· Partition coefficient: n-octanol/water:	Undetermined.
· Viscosity:	
Dynamic at 20 °C:	480-720 mPas
· Solvent content:	
VOC (CE)	0,00 %
· 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** Reacts with acids.
- **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.

SECTION 11: Toxicological information

- **11.1 Information on toxicological effects**
- **Acute toxicity**
Harmful if swallowed.

LD/LC50 values relevant for classification:**ATE (Acute Toxicity Estimates)**

Oral	LD50	1,388 mg/kg (rat)
Dermal	LD50	>2,716 mg/kg
Inhalative	LC50/4h	10.3 mg/l (rat)

61788-44-1 Phenol, styrenated

Oral	LD50	>2,000 mg/kg (rat)
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Dermal	LD50	>2,000 mg/kg (rabbit)
39423-51-3 Propylidynetrimethanol, propoxylated, reaction products with ammonia		
Oral	LD50	550 mg/kg (rat)
Dermal	LD50	>1,000 mg/kg (rabbit)
2855-13-2 3-aminomethyl-3,5,5-trimethylcyclohexylamine		
Oral	LD50	1,030 mg/kg (rat)
Inhalative	LC50/4h	>5.01 mg/l (rat)
61788-46-3 Amines, coco alkyl		
Oral	LD50	1,689 mg/kg (rat)
· ATE (Acute toxicity estimates) - REGULATION (EC) No 1272/2008		
39423-51-3 Propylidynetrimethanol, propoxylated, reaction products with ammonia		
Dermal	ATE (dermal)	>1,000 mg/kg (rat)
2855-13-2 3-aminomethyl-3,5,5-trimethylcyclohexylamine		
Dermal	ATE (dermal)	1,100 mg/kg (rat)

- **Primary irritant effect:**
- **Skin corrosion/irritation**
Causes severe skin burns and eye damage.
- **Serious eye damage/irritation**
Causes serious eye damage.
- **Respiratory or skin sensitisation**
May cause an allergic skin reaction.
- **CMR effects (carcinogenicity, 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** 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.

SECTION 12: Ecological information

· 12.1 Toxicity

· Aquatic toxicity:

61788-44-1 Phenol, styrenated

LC50/96h 5.6 mg/l (zebrafish (*Brachydanio rerio*))EC50/48h 4.6 mg/l (*Daphnia magna*) (OECD 202)

39423-51-3 Propylidynetrimethanol, propoxylated, reaction products with ammonia

EC50/48h 13 mg/l (*Daphnia magna*) (OECD 202)

2855-13-2 3-aminomethyl-3,5,5-trimethylcyclohexylamine

EC50/24h 42 mg/l (*Daphnia magna*)LC50/96h 110 mg/l (*Leuciscus idus*)EC50/72h 37 mg/l (*Scenedesmus suspicatus*)

- **12.2 Persistence and degradability** No further relevant information available.

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· Degree of elimination:**61788-44-1 Phenol, styrenated**

Biodegradability 7 % / 28d (activated sludge)

2855-13-2 3-aminomethyl-3,5,5-trimethylcyclohexylamine

Biodegradability 8 % / 28d (OECD 301A)

· **12.3 Bioaccumulative potential** No further relevant information available.· **12.4 Mobility in soil** No further relevant information available.· **Ecotoxical effects:**· **Remark:** Toxic for fish· **Behaviour in sewage processing plants:**· **Type of test Effective concentration Method Assessment****2855-13-2 3-aminomethyl-3,5,5-trimethylcyclohexylamine**

EC50/3h 10.1 mg/l (activated sludge) (OECD 303A)

· **Additional ecological information:**· **General notes:**

Do not allow product to reach ground water, water course or sewage system.

Toxic for aquatic organisms

Also poisonous for fish and plankton in water bodies.

Do not allow product to reach ground water, water course or sewage system, even in small quantities.

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

· **12.5 Results of PBT and vPvB assessment**· **PBT:** Not applicable.· **vPvB:** Not applicable.· **12.6 Other adverse effects** No further relevant information available.**SECTION 13: Disposal considerations**· **13.1 Waste treatment methods**

Dispose of contents/container in accordance with local/regional/national/international regulations.

· **Recommendation** Do not allow product to reach sewage system.· **European waste catalogue**

08 01 11* waste paint and varnish containing organic solvents or other hazardous substances

· **Uncleaned packaging:**· **Recommendation:** Disposal must be made according to official regulations.**SECTION 14: Transport information**· **14.1 UN-Number**· **ADR, IMDG, IATA**

UN2735

· **14.2 UN proper shipping name**· **ADR**

2735 AMINES, LIQUID, CORROSIVE, N.O.S. (m-phenylenebis(methylamine), Propylidynetrimethanol, propoxylated, reaction products with ammonia), ENVIRONMENTALLY HAZARDOUS

· **IMDG**

AMINES, LIQUID, CORROSIVE, N.O.S. (m-phenylenebis(methylamine), Propylidynetrimethanol, propoxylated, reaction products with ammonia), MARINE

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· IATA

POLLUTANT

AMINES, LIQUID, CORROSIVE, N.O.S. (m-phenylenebis(methylamine), Propylidynetrimethanol, propoxylated, reaction products with ammonia)

· 14.3 Transport hazard class(es)

· ADR



· Class

8 (C7) Corrosive substances.

· Label

8

· IMDG



· Class

8 Corrosive substances.

· Label

8

· IATA



· Class

8 Corrosive substances.

· Label

8

· 14.4 Packing group

· ADR, IMDG, IATA

II

· 14.5 Environmental hazards:

Product contains environmentally hazardous substances: 3-aminomethyl-3,5,5-trimethylcyclohexylamine, Amines, coco alkyl

· Marine pollutant:

Yes

Symbol (fish and tree)

· Special marking (ADR):

Symbol (fish and tree)

· 14.6 Special precautions for user

Warning: Corrosive substances.

· Danger code (Kemler):

80

· EMS Number:

F-A,S-B

· Segregation groups

Alkalis

· Stowage Category

A

· Segregation Code

SG35 Stow "separated from" acids.

· 14.7 Transport in bulk according to Annex II of
Marpol and the IBC Code

Not applicable.

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· Transport/Additional information:**· ADR****· Limited quantities (LQ)**

1L

· Excepted quantities (EQ)

Code: E2

Maximum net quantity per inner packaging: 30 ml

Maximum net quantity per outer packaging: 500 ml

· Transport category

2

· Tunnel restriction code

E

· IMDG**· Limited quantities (LQ)**

1L

· Excepted quantities (EQ)

Code: E2

Maximum net quantity per inner packaging: 30 ml

Maximum net quantity per outer packaging: 500 ml

· UN "Model Regulation":

UN 2735 AMINES, LIQUID, CORROSIVE, N.O.S. (M-P H E N Y L E N E B I S (M E T H Y L A M I N E) ,
PROPYLIDYNETRIMETHANOL, PROPOXYLATED,
REACTION PRODUCTS WITH AMMONIA), 8, II,
ENVIRONMENTALLY HAZARDOUS

*

SECTION 15: Regulatory information**· 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture****· REGULATION (EC) No 1907/2006 ANNEX XVII** Conditions of restriction: 3**· National regulations:**

Do not allow product to reach ground water, water course or sewage system, even in small quantities.

Water hazard class 3 (Self-assessment): extremely hazardous for water.

· Information about limitation of use:

Employment restrictions concerning juveniles must be observed. (94/33/EC)

Employment restrictions concerning pregnant and lactating women must be observed. (92/85/EC)

· 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.**SECTION 16: Other information****· Relevant phrases**

H302 Harmful if swallowed.

H304 May be fatal if swallowed and enters airways.

H312 Harmful in contact with skin.

H314 Causes severe skin burns and eye damage.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H318 Causes serious eye damage.

H331 Toxic if inhaled.

H332 Harmful if inhaled.

H335 May cause respiratory irritation.

H373 May cause damage to organs through prolonged or repeated exposure.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

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H411 Toxic to aquatic life with long lasting effects.

H412 Harmful to aquatic life with long lasting effects.

· **Department issuing SDS:** Laboratory

· **Contact:**

Dr. Amina Chnirheb

Amina.Chnirheb@forbo.com

· **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)

VOC: Volatile Organic Compounds (USA, EU)

DNEL: Derived No-Effect Level (REACH)

PNEC: Predicted No-Effect Concentration (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

Acute Tox. 3: Acute toxicity – Category 3

Skin Corr. 1B: Skin corrosion/irritation – Category 1B

Skin Corr. 1C: Skin corrosion/irritation – Category 1C

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

Eye Dam. 1: Serious eye damage/eye irritation – Category 1

Skin Sens. 1: Skin sensitisation – Category 1

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

STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2

Asp. Tox. 1: Aspiration hazard – Category 1

Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1

Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – 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

· *** Data compared to the previous version altered.**