

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH)

Revision date: 17 Oct 2019

Print date: 14 Sep 2020

Version: 2.1

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**EUROTEAM**  
construction chemicals



## EURODUR EPV 0411 groundfix Komponente A

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

#### 1.1. Product identifier

Trade name/designation:

EURODUR EPV 0411 groundfix Komponente A

#### 1.2. Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses:

**Sector of uses [SU]**

**SU 19:** Building and construction work

Uses advised against:

**Sector of uses [SU]**

**SU 21:** Consumer uses

#### 1.3. Details of the supplier of the safety data sheet

Supplier (manufacturer/importer/only representative/downstream user/distributor):

**Euroteam Bauchemie GmbH**

An der Mühle 1  
15345 Altlandsberg  
Germany

**Telephone:** +49 (0) 33438 14790

**Telefax:** +49 (0) 33438 147929

**E-mail:** info@euroteam-bauchemie.de

**Website:** www.euroteam-bauchemie.de

**E-mail (competent person):** info@euroteam-bauchemie.de

#### 1.4. Emergency telephone number

Labor, 24h: +49 (0) 162 2599220, Montag - Donnerstag 7:00 - 16:00; Freitag 7:00 - 13:00 +49 (0) 33438 1479 19 (Only available during office hours.)

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 [CLP]:

Hazard classes and hazard categories	Hazard statements	Classification procedure
Skin corrosion/irritation ( <i>Skin Irrit. 2</i> )	H315: Causes skin irritation.	
Respiratory or skin sensitisation ( <i>Skin Sens. 1</i> )	H317: May cause an allergic skin reaction.	
Serious eye damage/eye irritation ( <i>Eye Irrit. 2</i> )	H319: Causes serious eye irritation.	
Hazardous to the aquatic environment ( <i>Aquatic Chronic 3</i> )	H412: Harmful to aquatic life with long lasting effects.	

#### 2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms:



**GHS07**

Exclamation mark

**Signal word:** Warning

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### Hazard components for labelling:

reaction product: bisphenol-A-(epichlorhydrin)epoxy resin (number average) molecular weight  $\leq$  700;  
reaction product: bisphenol-F-(epichlorhydrin)epoxy resin (number average) molecular weight  $\leq$  700;  
Pineoil; 1,3-bis(2,3-epoxypropoxy)-2,2-dimethylpropane

#### hazard statements for health hazards

H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.

#### Hazard statements for environmental hazards

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

#### Supplemental hazard information

EUH205	Contains epoxy constituents. May produce an allergic reaction.
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#### Precautionary Statements Prevention

P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P264	Wash hands thoroughly after handling.
P272	Contaminated work clothing should not be allowed out of the workplace.

#### Precautionary Statements Response

P333 + P313	If skin irritation or rash occurs: Get medical advice/attention.
P337 + P313	If eye irritation persists: Get medical advice/attention.




### 2.3. Other hazards

No data available

## SECTION 3: Composition / information on ingredients

### 3.2. Mixtures

#### Hazardous ingredients / Hazardous impurities / Stabilisers:

product identifiers	Substance name Classification according to Regulation (EC) No 1272/2008 [CLP]	Concentration
<b>CAS No.:</b> 25068-38-6 <b>EC No.:</b> 500-033-5 <b>REACH No.:</b> 01-2119456619-26-XXXX	<b>reaction product: bisphenol-A-(epichlorhydrin)epoxy resin (number average) molecular weight <math>\leq</math> 700</b> Aquatic Chronic 2, Eye Irrit. 2, Skin Irrit. 2, Skin Sens. 1   <b>Warning</b> H315-H317-H319-H411	10 - 15 %
<b>CAS No.:</b> 9003-36-5 <b>EC No.:</b> 500-006-8 <b>REACH No.:</b> 01-2119454392-40-XXXX	<b>reaction product: bisphenol-F-(epichlorhydrin)epoxy resin (number average) molecular weight <math>\leq</math> 700</b> The substance is classified as not hazardous according to regulation (EC) No 1272/2008 [CLP].	5 - 10 %
<b>CAS No.:</b> 94266-48-5	<b>Pineoil</b> Aquatic Chronic 2, Asp. Tox. 1, Eye Irrit. 2, Flam. Liq. 3, Skin Irrit. 2, Skin Sens. 1 H226-H304-H315-H317-H319-H411	1 - 5 %
<b>CAS No.:</b> 17557-23-2 <b>EC No.:</b> 241-536-7	<b>1,3-bis(2,3-epoxypropoxy)-2,2-dimethylpropane</b> Skin Irrit. 2, Skin Sens. 1  <b>Warning</b> H315-H317	1 - 5 %

Full text of H- and EUH-phrases: see section 16.

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

#### General information:

Take off immediately all contaminated clothing and wash it before reuse.

#### Following inhalation:

In case of respiratory tract irritation, consult a physician. Apply cortisone spray at early stage.

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### In case of skin contact:

After contact with skin, wash immediately with plenty of water and soap.

### After eye contact:

In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist. Remove contact lenses, if present and easy to do. Continue rinsing.

### After ingestion:

Do NOT induce vomiting. Immediately call a doctor.

### 4.2. Most important symptoms and effects, both acute and delayed

No known symptoms to date.

### 4.3. Indication of any immediate medical attention and special treatment needed

none

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

#### Suitable extinguishing media:

alcohol resistant foam, Extinguishing powder, Carbon dioxide (CO<sub>2</sub>), Water spray jet

#### Unsuitable extinguishing media:

Full water jet

### 5.2. Special hazards arising from the substance or mixture

In case of fire may be liberated: Gases/vapours, harmful

#### Hazardous combustion products:

Hazardous decomposition products: Carbon dioxide (CO<sub>2</sub>), Carbon monoxide, Nitrogen oxides (NO<sub>x</sub>)

### 5.3. Advice for firefighters

In case of fire: Wear self-contained breathing apparatus.

### 5.4. Additional information

Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

#### 6.1.1. For non-emergency personnel

##### Personal precautions:

Provide adequate ventilation. To follow: SECTION 7: Handling and storage; Personal protection equipment: see section 8

#### 6.1.2. For emergency responders

No data available

### 6.2. Environmental precautions

Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains. In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

### 6.3. Methods and material for containment and cleaning up

#### For containment:

Take up mechanically. Disposal: see section 13

### 6.4. Reference to other sections

Safe handling: see section 7 Disposal: see section 13 Personal protection equipment: see section 8

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

#### Protective measures

#### Advices on safe handling:

Avoid contact with eyes and skin. When using do not eat, drink or smoke.

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### 7.2. Conditions for safe storage, including any incompatibilities

#### Requirements for storage rooms and vessels:

Store in a closed container.

#### Hints on storage assembly:

Keep away from food, drink and animal feedingstuffs.

**Storage class:** 10 - Combustible liquids that cannot be assigned to any of the above storage classes

#### Further information on storage conditions:

Keep container dry. To follow: Recommended storage temperature

### 7.3. Specific end use(s)

#### Industrial sector specific solutions:

Epoxy resin products, solvent-free, sensitising

#### GISCODE:

RE1

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### 8.1.1. Occupational exposure limit values

No data available

#### 8.1.2. Biological limit values

No data available

#### 8.1.3. DNEL-/PNEC-values

Substance name	DNEL value	① DNEL type ② Exposure route
reaction product: bisphenol-A-(epichlorhydrin)e poxy resin (number average) molecular weight <= 700 CAS No.: 25068-38-6	12.3 mg/m <sup>3</sup>	① DNEL worker ② inhalative, short-term, systemic, (acute)
reaction product: bisphenol-A-(epichlorhydrin)e poxy resin (number average) molecular weight <= 700 CAS No.: 25068-38-6	8.3 mg/kg	① DNEL worker ② Acute - dermal, systemic effects
reaction product: bisphenol-F-(epichlorhydrin)epoxy resin (number average) molecular weight <= 700 CAS No.: 9003-36-5	29.39 mg/m <sup>3</sup>	① DNEL worker ② inhalative, long-term, systemic
reaction product: bisphenol-F-(epichlorhydrin)epoxy resin (number average) molecular weight <= 700 CAS No.: 9003-36-5	104.15 mg/kg bw/day	① DNEL worker ② dermal, long-term, systemic
reaction product: bisphenol-F-(epichlorhydrin)epoxy resin (number average) molecular weight <= 700 CAS No.: 9003-36-5	0.0083 mg/cm <sup>2</sup>	① DNEL worker ② dermal, short-term, local, (acute)

Substance name	PNEC Value	① PNEC type
reaction product: bisphenol-A-(epichlorhydrin)e poxy resin (number average) molecular weight <= 700 CAS No.: 25068-38-6	0.006 mg/l	① PNEC aquatic, freshwater
reaction product: bisphenol-A-(epichlorhydrin)e poxy resin (number average) molecular weight <= 700 CAS No.: 25068-38-6	0.0006 mg/l	① PNEC aquatic, marine water
reaction product: bisphenol-F-(epichlorhydrin)epoxy resin (number average) molecular weight <= 700 CAS No.: 9003-36-5	0.003 mg/l	① PNEC aquatic, freshwater

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Substance name	PNEC Value	① PNEC type
reaction product: bisphenol-F-(epichlorhydrin)epoxy resin (number average) molecular weight <= 700 CAS No.: 9003-36-5	0.0003 mg/l	① PNEC aquatic, marine water
reaction product: bisphenol-F-(epichlorhydrin)epoxy resin (number average) molecular weight <= 700 CAS No.: 9003-36-5	10 mg/l	① PNEC sewage treatment plant
reaction product: bisphenol-F-(epichlorhydrin)epoxy resin (number average) molecular weight <= 700 CAS No.: 9003-36-5	0.294 mg/kg	① PNEC sediment, freshwater
reaction product: bisphenol-F-(epichlorhydrin)epoxy resin (number average) molecular weight <= 700 CAS No.: 9003-36-5	0.0294 mg/kg	① PNEC sediment, marine water
reaction product: bisphenol-F-(epichlorhydrin)epoxy resin (number average) molecular weight <= 700 CAS No.: 9003-36-5	0.237 mg/kg	① PNEC soil
reaction product: bisphenol-F-(epichlorhydrin)epoxy resin (number average) molecular weight <= 700 CAS No.: 9003-36-5	0.0254 mg/l	① PNEC aquatic, intermittent release

### 8.2. Exposure controls

#### 8.2.1. Appropriate engineering controls

No data available

#### 8.2.2. Personal protection equipment

##### Eye/face protection:

Eye glasses with side protection

##### Skin protection:

Wear protective gloves. Suitable gloves type: plastic. When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. Check leak tightness/impermeability prior to use. Use protective skin cream before handling the product. Suitable material: NBR (Nitrile rubber), FKM (fluoro rubber). Thickness of the glove material:  $\geq 0,5$  mm. Breakthrough time (maximum wearing time):  $\geq 480$  min. Breakthrough times and swelling properties of the material must be taken into consideration. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves. Wear suitable protective clothing.

##### Respiratory protection:

Respiratory protection necessary at: exceeding exposure limit values. Suitable respiratory protection apparatus: Half-face mask or quarter facepiece: maximum use concentration for substances with exposure limits: P1 filter: up to a max. of 4 times the exposure limit. P2 filter: up to a max. of 10 times the exposure limit. P3 filter: up to a max. of 30 times the expo.

##### Other protection measures:

Keep away from food, drink and animal feedingstuffs. Take off immediately all contaminated clothing and wash it before reuse. Wash hands before breaks and after work. Wear suitable protective clothing.

#### 8.2.3. Environmental exposure controls

No data available

## SECTION 9: Physical and chemical properties

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

#### Appearance

**Physical state:** solid

**Colour:** grey

**Odour:** characteristic

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### Safety relevant basis data

parameter		at °C	Method	Remark
pH	<i>not determined</i>			
Melting point	<i>not determined</i>			
Freezing point	<i>not determined</i>			
Initial boiling point and boiling range	> 200 °C			
Decomposition temperature	<i>not determined</i>			
Flash point	> 100 °C			
Evaporation rate	<i>not determined</i>			
Auto-ignition temperature	<i>not determined</i>			
Upper/lower flammability or explosive limits	<i>not determined</i>			
Vapour pressure	<i>not applicable</i>			
Vapour density	<i>not determined</i>			
Density	2 g/cm <sup>3</sup>	23 °C		
Bulk density	<i>not determined</i>			
Water solubility	<i>not determined</i>			
Partition coefficient: n-octanol/water	<i>not determined</i>			
Dynamic viscosity	<i>not determined</i>			
Kinematic viscosity	<i>not determined</i>			

### 9.2. Other information

No data available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

No information available.

### 10.2. Chemical stability

No information available.

### 10.3. Possibility of hazardous reactions

No information available.

### 10.4. Conditions to avoid

none

### 10.5. Incompatible materials

Incompatible materials: Strong acid, Alkalis, Oxidising agent

### 10.6. Hazardous decomposition products

Carbon dioxide, Nitrogen oxides (NO<sub>x</sub>), Carbon monoxide

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

CAS No.	Substance name	Toxicological information
25068-38-6	reaction product: bisphenol-A-(epichlorhydrin)epoxy resin (number average) molecular weight <= 700	<b>LD<sub>50</sub> oral:</b> 15,000 mg/kg (Rat) <b>LD<sub>50</sub> dermal:</b> 23,000 mg/kg (Rabbit)
9003-36-5	reaction product: bisphenol-F-(epichlorhydrin)epoxy resin (number average) molecular weight <= 700	<b>LD<sub>50</sub> oral:</b> >2,000 mg/kg (Rat) <b>LD<sub>50</sub> dermal:</b> >2,000 mg/kg (Rabbit)

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### Skin corrosion/irritation:

Irritating to skin.

### Serious eye damage/irritation:

Irritating to eyes.

### Respiratory or skin sensitisation:

Sensitisation to the respiratory tract. Skin sensitisation.

### Additional information:

The product is skin resorptive.

## SECTION 12: Ecological information

### 12.1. Toxicity

CAS No.	Substance name	Toxicological information
25068-38-6	reaction product: bisphenol-A-(epichlorhydrin)epoxy resin (number average) molecular weight <= 700	<b>LC<sub>50</sub></b> : 3.6 mg/l 4 d (fish, Leuciscus idus (golden orfe)) <b>ErC<sub>50</sub></b> : 220 mg/l 3 d (Algae/water plant) <b>EC<sub>50</sub></b> : 2.8 mg/l 2 d (crustaceans)
9003-36-5	reaction product: bisphenol-F-(epichlorhydrin)epoxy resin (number average) molecular weight <= 700	<b>EC<sub>50</sub></b> : >1,000 mg/l 3 d (Algae/water plant) <b>LC<sub>50</sub></b> : 2.54 mg/l 4 d (fish) <b>EC<sub>50</sub></b> : 2.55 mg/l 2 d (crustaceans)

### Assessment/classification:

No information available.

### Additional ecotoxicological information:

Do not allow to enter into surface water or drains.

### 12.2. Persistence and degradability

#### Additional information:

No information available.

### 12.3. Bioaccumulative potential

CAS No.	Substance name	Log K <sub>OW</sub>	Bioconcentration factor (BCF)
9003-36-5	reaction product: bisphenol-F-(epichlorhydrin)epoxy resin (number average) molecular weight <= 700	3.6	

### Accumulation / Evaluation:

No information available.

### 12.4. Mobility in soil

No information available.

### 12.5. Results of PBT and vPvB assessment

CAS No.	Substance name	Results of PBT and vPvB assessment
25068-38-6	reaction product: bisphenol-A-(epichlorhydrin)epoxy resin (number average) molecular weight <= 700	—
9003-36-5	reaction product: bisphenol-F-(epichlorhydrin)epoxy resin (number average) molecular weight <= 700	—

No information available.

### 12.6. Other adverse effects

No information available.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Dispose of waste according to applicable legislation.



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## EURODUR EPV 0411 groundfix Komponente A

### 13.1.1. Product/Packaging disposal

Waste codes/waste designations according to EWC/AVV

#### Waste code product:

08 01 12	waste paint and varnish other than those mentioned in 08 01 11
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## SECTION 14: Transport information

No dangerous good in sense of these transport regulations.

Land transport (ADR/RID)	Inland waterway craft (ADN)	Sea transport (IMDG)	Air transport (ICAO-TI / IATA-DGR)
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### 14.1. UN-No.

No dangerous good in sense of these transport regulations.

No dangerous good in sense of these transport regulations.

No dangerous good in sense of these transport regulations.

No dangerous good in sense of these transport regulations.

### 14.2. UN proper shipping name

No dangerous good in sense of these transport regulations.

No dangerous good in sense of these transport regulations.

No dangerous good in sense of these transport regulations.

No dangerous good in sense of these transport regulations.

### 14.3. Transport hazard class(es)

not relevant

### 14.4. Packing group

not relevant

### 14.5. Environmental hazards

not relevant

### 14.6. Special precautions for user

not relevant

### 14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

not relevant

## SECTION 15: Regulatory information

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

#### 15.1.1. EU legislation

No data available

#### 15.1.2. National regulations

 [DE] National regulations

#### Water hazard class (WGK)

##### WGK:

2 - deutlich wassergefährdend

#### Berufsgenossenschaftliche Vorschriften (BGV)

Berufsgenossenschaftliche Vorschriften (BGV): D25 Berufsgenossenschaftliche Informationen (BGI): 595

Berufsgenossenschaftliche Regeln (BGR): 227

### 15.2. Chemical Safety Assessment

For this substance a chemical safety assessment has not been carried out.

## SECTION 16: Other information

### 16.1. Indication of changes

No data available



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### 16.2. Abbreviations and acronyms

No data available

### 16.3. Key literature references and sources for data

No data available

### 16.4. Classification for mixtures and used evaluation method according to regulation (EC) No 1272/2008 [CLP]

**Classification according to Regulation (EC) No 1272/2008 [CLP]:**

Hazard classes and hazard categories	Hazard statements	Classification procedure
Skin corrosion/irritation ( <i>Skin Irrit. 2</i> )	H315: Causes skin irritation.	
Respiratory or skin sensitisation ( <i>Skin Sens. 1</i> )	H317: May cause an allergic skin reaction.	
Serious eye damage/eye irritation ( <i>Eye Irrit. 2</i> )	H319: Causes serious eye irritation.	
Hazardous to the aquatic environment ( <i>Aquatic Chronic 3</i> )	H412: Harmful to aquatic life with long lasting effects.	

### 16.5. Relevant R-, H- and EUH-phrases (Number and full text)

Hazard statements	
H226	Flammable liquid and vapour.
H304	May be fatal if swallowed and enters airways.
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.

### 16.6. Training advice

No data available

### 16.7. Additional information

No data available

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## EURODUR EPV 0411 groundfix Komponente B\_normal

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

#### 1.1. Product identifier

Trade name/designation:

EURODUR EPV 0411 groundfix Komponente B\_normal

#### 1.2. Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses:

**Sector of uses [SU]**

**SU 19:** Building and construction work

Uses advised against:

**Sector of uses [SU]**

**SU 21:** Consumer uses

#### 1.3. Details of the supplier of the safety data sheet

Supplier (manufacturer/importer/only representative/downstream user/distributor):

**Euroteam Bauchemie GmbH**

An der Mühle 1  
15345 Altlandsberg  
Germany

**Telephone:** +49 (0) 33438 14790

**Telefax:** +49 (0) 33438 147929

**E-mail:** info@euroteam-bauchemie.de

**Website:** www.euroteam-bauchemie.de

**E-mail (competent person):** info@euroteam-bauchemie.de

#### 1.4. Emergency telephone number

Labor, 24h: +49 (0) 162 2599220, Montag - Donnerstag 7:00 - 16:00; Freitag 7:00 - 13:00 +49 (0) 33438 1479 19 (Only available during office hours.)

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 [CLP]:

Hazard classes and hazard categories	Hazard statements	Classification procedure
Skin corrosion/irritation (Skin Corr. 1B)	H314: Causes severe skin burns and eye damage.	
Respiratory or skin sensitisation (Skin Sens. 1)	H317: May cause an allergic skin reaction.	
Hazardous to the aquatic environment (Aquatic Chronic 3)	H412: Harmful to aquatic life with long lasting effects.	

#### 2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms:



**GHS05**  
Corrosion



**GHS07**  
Exclamation mark

Signal word: Danger

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## EURODUR EPV 0411 groundfix Komponente B\_normal

### Hazard components for labelling:

Polyoxypropylenediamine; 2-piperazin-1-ylethylamine; Fatty acids, tall-oil, reaction products with polyethylenepolyamines; Phenol, styrenated

#### hazard statements for health hazards

H314	Causes severe skin burns and eye damage.
H317	May cause an allergic skin reaction.

#### Hazard statements for environmental hazards

H412	Harmful to aquatic life with long lasting effects.
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#### Precautionary statements Prevention

P280	Wear protective gloves/protective clothing/eye protection/face protection.
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#### Precautionary statements Response

P302 + P352	IF ON SKIN: Wash with plenty of soap and water.
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.

### 2.3. Other hazards

No data available

## SECTION 3: Composition / information on ingredients

### 3.2. Mixtures

#### Hazardous ingredients / Hazardous impurities / Stabilisers:

product identifiers	Substance name Classification according to Regulation (EC) No 1272/2008 [CLP]	Concentration
CAS No.: 68910-93-0 EC No.: 272-756-1	<b>Fatty acids, tall-oil, reaction products with polyethylenepolyamines</b> Eye Irrit. 2, Skin Irrit. 2, Skin Sens. 1 H315-H317-H319	70 - 75 %
CAS No.: 61788-44-1 EC No.: 262-975-0 REACH No.: 01-2119980970-27-XXXX	<b>Phenol, styrenated</b> The substance is classified as not hazardous according to regulation (EC) No 1272/2008 [CLP].	10 - 15 %
CAS No.: 9046-10-0 EC No.: 618-561-0 REACH No.: 01-2119557899-12-XXXX	<b>Polyoxypropylenediamine</b> Acute Tox. 4, Skin Corr. 1B H302-H312-H314	10 - 15 %
CAS No.: 140-31-8 EC No.: 205-411-0 REACH No.: 01-2119471486-30-XXXX	<b>2-piperazin-1-ylethylamine</b> The substance is classified as not hazardous according to regulation (EC) No 1272/2008 [CLP].	1 - 5 %

Full text of H- and EUH-phrases: see section 16.

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

#### General information:

Take off immediately all contaminated clothing.

#### Following inhalation:

Remove casualty to fresh air and keep warm and at rest. If breathing is irregular or stopped, administer artificial respiration. In case of respiratory tract irritation, consult a physician. Apply cortisone spray at early stage. If unconscious place in recovery position and seek medical advice.

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### In case of skin contact:

Wash immediately with: Water. For cleaning up: Polyethylene glycol 400 Subsequently wash off with: Water. Call a physician immediately.

### After eye contact:

In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist. Call a physician immediately.

### After ingestion:

Do NOT induce vomiting. Rinse mouth immediately and drink plenty of water.

### Self-protection of the first aider:

First aider: Pay attention to self-protection!

### 4.2. Most important symptoms and effects, both acute and delayed

No known symptoms to date.

### 4.3. Indication of any immediate medical attention and special treatment needed

none

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

#### Suitable extinguishing media:

alcohol resistant foam, Extinguishing powder, Carbon dioxide (CO<sub>2</sub>), Water spray jet

#### Unsuitable extinguishing media:

Full water jet

### 5.2. Special hazards arising from the substance or mixture

Harmful: danger of serious damage to health by prolonged exposure through inhalation.

#### Hazardous combustion products:

In case of fire may be liberated: Carbon dioxide (CO<sub>2</sub>), Nitrogen oxides (NO<sub>x</sub>), Carbon monoxide

### 5.3. Advice for firefighters

In case of fire: Wear self-contained breathing apparatus.

### 5.4. Additional information

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

#### 6.1.1. For non-emergency personnel

##### Personal precautions:

Provide adequate ventilation. Avoid: Inhalation of vapours or spray/mists. Safe handling: see section 7, Personal protection equipment: see section 8

#### 6.1.2. For emergency responders

No data available

### 6.2. Environmental precautions

Do not allow to enter into surface water or drains. In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

### 6.3. Methods and material for containment and cleaning up

#### For cleaning up:

Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents). Treat the recovered material as prescribed in the section on waste disposal.

### 6.4. Reference to other sections

No data available

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### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

##### Protective measures

##### Advices on safe handling:

Avoid: Skin contact, Eye contact, Inhalation of vapours or spray/mists. When using do not eat, drink or smoke.

##### Advices on general occupational hygiene

Wash hands before breaks and after work. Apply skin care products after work. Use protective skin cream before handling the product.

#### 7.2. Conditions for safe storage, including any incompatibilities

##### Technical measures and storage conditions:

Keep container tightly closed.

##### Requirements for storage rooms and vessels:

Keep container tightly closed and dry. To follow: Recommended storage temperature

##### Hints on storage assembly:

Keep away from food, drink and animal feedingstuffs.

**Storage class:** 8A - Combustible corrosive substances

#### 7.3. Specific end use(s)

##### Industrial sector specific solutions:

Epoxy resin products, solvent-free, sensitising

##### GISCODE:

RE1

### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

##### 8.1.1. Occupational exposure limit values

No data available

##### 8.1.2. Biological limit values

No data available

##### 8.1.3. DNEL-/PNEC-values

Substance name	DNEL value	① DNEL type ② Exposure route
2-piperazin-1-ylethylamine CAS No.: 140-31-8	21.4 mg/m <sup>3</sup>	① DNEL worker ② inhalative, short-term, systemic, (acute)
2-piperazin-1-ylethylamine CAS No.: 140-31-8	20 mg/kg	① DNEL worker ② Acute - dermal, systemic effects

Substance name	PNEC Value	① PNEC type
Polyoxypropylenediamine CAS No.: 9046-10-0	0.015 mg/l	① PNEC aquatic, freshwater
Polyoxypropylenediamine CAS No.: 9046-10-0	0.0142 mg/l	① PNEC aquatic, marine water
2-piperazin-1-ylethylamine CAS No.: 140-31-8	0.058 mg/l	① PNEC aquatic, freshwater
2-piperazin-1-ylethylamine CAS No.: 140-31-8	0.0058 mg/l	① PNEC aquatic, marine water

#### 8.2. Exposure controls

##### 8.2.1. Appropriate engineering controls

No data available

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### 8.2.2. Personal protection equipment

#### Eye/face protection:

Eye glasses with side protection

#### Skin protection:

Wear protective gloves. Suitable gloves type: plastic. When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. Check leak tightness/impermeability prior to use. Use protective skin cream before handling the product. Suitable material: NBR (Nitrile rubber), FKM (fluoro rubber). Thickness of the glove material:  $\geq 0,5$  mm. Breakthrough time (maximum wearing time):  $\geq 480$  min. Breakthrough times and swelling properties of the material must be taken into consideration. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves. Wear suitable protective clothing.

#### Respiratory protection:

Respiratory protection necessary at: exceeding exposure limit values. Suitable respiratory protection apparatus: Half-face mask or quarter facepiece: maximum use concentration for substances with exposure limits: P1 filter: up to a max. of 4 times the exposure limit. P2 filter: up to a max. of 10 times the exposure limit. P3 filter: up to a max. of 30 times the expo.

#### Other protection measures:

Keep away from food, drink and animal feedingstuffs. Take off immediately all contaminated clothing and wash it before reuse. Wear suitable protective clothing. Wash hands before breaks and after work.

### 8.2.3. Environmental exposure controls

No data available

## SECTION 9: Physical and chemical properties

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

#### Appearance

**Physical state:** Liquid

**Colour:** yellow

**Odour:** Amines

#### Safety relevant basis data

parameter		at °C	Method	Remark
pH	<i>not determined</i>			
Melting point	<i>not determined</i>			
Freezing point	<i>not determined</i>			
Initial boiling point and boiling range	> 200 °C			
Decomposition temperature	<i>not determined</i>			
Flash point	> 93 °C			
Evaporation rate	<i>not determined</i>			
Auto-ignition temperature	<i>not determined</i>			
Upper/lower flammability or explosive limits	<i>not determined</i>			
Vapour pressure	< 1 hPa	50 °C		
Vapour density	<i>not determined</i>			
Density	$\approx 1$ g/cm <sup>3</sup>	23 °C		
Bulk density	<i>not determined</i>			
Water solubility	<i>not determined</i>			
Partition coefficient: n-octanol/water	<i>not determined</i>			
Dynamic viscosity	<i>not determined</i>			
Kinematic viscosity	<i>not determined</i>			
flow time	50 - 75 s	23 °C		

### 9.2. Other information

No data available

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### SECTION 10: Stability and reactivity

#### 10.1. Reactivity

No information available.

#### 10.2. Chemical stability

No information available.

#### 10.3. Possibility of hazardous reactions

No information available.

#### 10.4. Conditions to avoid

none

#### 10.5. Incompatible materials

Incompatible materials: Strong acid, Alkalis, Oxidising agent

#### 10.6. Hazardous decomposition products

Nitrogen oxides (NOx), Carbon dioxide (CO2), Carbon monoxide

### SECTION 11: Toxicological information

#### 11.1. Information on toxicological effects

CAS No.	Substance name	Toxicological information
61788-44-1	Phenol, styrenated	<b>LD<sub>50</sub> oral:</b> >2,000 mg/kg (Rat) <b>LD<sub>50</sub> dermal:</b> >2,000 mg/kg (Rat)
9046-10-0	Polyoxypropylenediamine	<b>LD<sub>50</sub> oral:</b> 2,885 mg/kg (Rat) <b>LD<sub>50</sub> dermal:</b> 2,980 mg/kg (Rabbit)
140-31-8	2-piperazin-1-ylethylamine	<b>LD<sub>50</sub> oral:</b> 2,110 mg/kg (Rat) <b>LD<sub>50</sub> dermal:</b> 867 mg/kg (Rabbit)

#### Skin corrosion/irritation:

corrosive

#### Serious eye damage/irritation:

Corrosive

#### Additional information:

Skin corrosion/irritation, Causes serious eye damage. The product is skin resorptive. Sensitising. Harmful if swallowed. IF INHALED: Do not breathe gas/vapour. Adverse human health effects and symptoms: Dizziness, Headache, Nausea.



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### SECTION 12: Ecological information

#### 12.1. Toxicity

CAS No.	Substance name	Toxicological information
61788-44-1	Phenol, styrenated	<b>LC<sub>50</sub></b> : 14.8 mg/l 4 d (fish, Brachydanio rerio (zebra-fish)) OECD 203 <b>EC<sub>50</sub></b> : >1 - 10 mg/l 2 d (crustaceans, Daphnia magna (Big water flea)) OECD 202 <b>EC<sub>50</sub></b> : 3.14 mg/l 3 d (Algae/water plant, Scenedesmus subspicatus) OECD 201 <b>NOEC</b> : 1.9 mg/l 12 d (fish, Oryzias latipes (Ricefish)) <b>NOEC</b> : 0.2 mg/l 21 d (crustaceans, Daphnia magna (Big water flea))
9046-10-0	Polyoxypropylenediamine	<b>EC<sub>50</sub></b> : 80 mg/l 2 d (crustaceans, Daphnia magna (Big water flea)) <b>LC<sub>50</sub></b> : >15 mg/l 4 d (fish) <b>EC<sub>50</sub></b> : 15 mg/l 3 d (Algae/water plant, Pseudokirchneriella subcapitata)
140-31-8	2-piperazin-1-ylethylamine	<b>LC<sub>50</sub></b> : 2,190 mg/l 4 d (fish, Pimephales promelas (fathead minnow)) OECD 203 <b>EC<sub>50</sub></b> : 58 mg/l 2 d (crustaceans, Daphnia magna (Big water flea)) OECD 202 <b>ErC<sub>50</sub></b> : >1,000 mg/l 3 d (Algae/water plant, Pseudokirchneriella subcapitata) OECD 201 <b>EC<sub>50</sub></b> : 494 mg/l 2 d (Algae/water plant, Selenastrum capricornutum) <b>LC<sub>50</sub></b> : 368 mg/l 4 d (fish, Poecilia reticulata (Guppy))

#### Aquatic toxicity:

No information available.

#### Additional ecotoxicological information:

No information available.

#### 12.2. Persistence and degradability

CAS No.	Substance name	Biodegradation	Remark
61788-44-1	Phenol, styrenated	No	Biodegradation: 4 %, Method: 310
140-31-8	2-piperazin-1-ylethylamine	No	Biodegradation: 0 %, Test duration: 28 d, Method: OECD F

#### Additional information:

No information available.

#### 12.3. Bioaccumulative potential

CAS No.	Substance name	Log K <sub>OW</sub>	Bioconcentration factor (BCF)
61788-44-1	Phenol, styrenated	4	
140-31-8	2-piperazin-1-ylethylamine	-1.48	

#### Accumulation / Evaluation:

No information available.

#### 12.4. Mobility in soil

No information available.

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### 12.5. Results of PBT and vPvB assessment

CAS No.	Substance name	Results of PBT and vPvB assessment
61788-44-1	Phenol, styrenated	—
9046-10-0	Polyoxypropylenediamine	—
140-31-8	2-piperazin-1-ylethylamine	—

No information available.

### 12.6. Other adverse effects

Do not allow to enter into surface water or drains.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Dispose of waste according to applicable legislation.

#### 13.1.1. Product/Packaging disposal





Waste codes/waste designations according to EWC/AVV

#### Waste code product:

08 01 11 \* Waste paint and varnish containing organic solvents or other dangerous substances

\*: Evidence for disposal must be provided.

## SECTION 14: Transport information

Land transport (ADR/RID)	Inland waterway craft (ADN)	Sea transport (IMDG)	Air transport (ICAO-TI / IATA-DGR)
<b>14.1. UN-No.</b>			
UN 2735	UN 2735	UN 2735	UN 2735
<b>14.2. UN proper shipping name</b>			
POLYAMINES, LIQUID, CORROSIVE, N.O.S. (Polyoxypropylenediamine , 2-piperazin-1-ylethylamine )	POLYAMINES, LIQUID, CORROSIVE, N.O.S. (Polyoxypropylenediamine , 2-piperazin-1-ylethylamine )	POLYAMINES, LIQUID, CORROSIVE, N.O.S. (Polyoxypropylenediamine , 2-piperazin-1-ylethylamine )	POLYAMINES, LIQUID, CORROSIVE, N.O.S. (Polyoxypropylenediamine , 2-piperazin-1-ylethylamine )
<b>14.3. Transport hazard class(es)</b>			
 8	 8	 8	 8
<b>14.4. Packing group</b>			
III	III	III	III
<b>14.5. Environmental hazards</b>			
No data available			

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Land transport (ADR/RID)	Inland waterway craft (ADN)	Sea transport (IMDG)	Air transport (ICAO-TI / IATA-DGR)
<b>14.6. Special precautions for user</b>			
<b>Special provisions:</b> E 1 <b>Limited quantity (LQ):</b> 7 L <b>Excepted Quantities (EQ):</b> <b>Hazard identification number (Kemler No.):</b> 80 <b>Classification code:</b> C7 <b>tunnel restriction code:</b> (E) <b>Remark:</b>	<b>Special provisions:</b> <b>Excepted Quantities (EQ):</b> <b>Classification code:</b> C7 <b>Remark:</b>	<b>Special provisions:</b> E 1 <b>Limited quantity (LQ):</b> 5 L <b>Excepted Quantities (EQ):</b> <b>EmS-No.:</b> F-A, ; S-B <b>Remark:</b>	<b>Special provisions:</b> E 1 <b>Excepted Quantities (EQ):</b> <b>Remark:</b>

### 14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

No data available

## SECTION 15: Regulatory information

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

#### 15.1.1. EU legislation

No data available

#### 15.1.2. National regulations

 [DE] National regulations

#### Water hazard class (WGK)

##### WGK:

3 - stark wassergefährdend

#### Berufsgenossenschaftliche Vorschriften (BGV)

Berufsgenossenschaftliche Vorschriften (BGV): D 25 Berufsgenossenschaftliche Informationen (BGI): 595 Berufsgenossenschaftliche Regeln (BGR): 227

### 15.2. Chemical Safety Assessment

For this substance a chemical safety assessment has not been carried out.

## SECTION 16: Other information

### 16.1. Indication of changes

No data available

### 16.2. Abbreviations and acronyms

No data available

### 16.3. Key literature references and sources for data

No data available

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### 16.4. Classification for mixtures and used evaluation method according to regulation (EC) No 1272/2008 [CLP]

Classification according to Regulation (EC) No 1272/2008 [CLP]:

Hazard classes and hazard categories	Hazard statements	Classification procedure
Skin corrosion/irritation ( <i>Skin Corr. 1B</i> )	H314: Causes severe skin burns and eye damage.	
Respiratory or skin sensitisation ( <i>Skin Sens. 1</i> )	H317: May cause an allergic skin reaction.	
Hazardous to the aquatic environment ( <i>Aquatic Chronic 3</i> )	H412: Harmful to aquatic life with long lasting effects.	

### 16.5. Relevant R-, H- and EUH-phrases (Number and full text)

Hazard statements	
H302	Harmful if swallowed.
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.
H319	Causes serious eye irritation.

### 16.6. Training advice

No data available

### 16.7. Additional information

No data available

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## EURODUR EPV 0411 groundfix Komponente B\_schnell

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

#### 1.1. Product identifier

Trade name/designation:

EURODUR EPV 0411 groundfix Komponente B\_schnell

#### 1.2. Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses:

**Sector of uses [SU]**

**SU 19:** Building and construction work

Uses advised against:

**Sector of uses [SU]**

**SU 21:** Consumer uses

#### 1.3. Details of the supplier of the safety data sheet

Supplier (manufacturer/importer/only representative/downstream user/distributor):

**Euroteam Bauchemie GmbH**

An der Mühle 1  
15345 Altlandsberg  
Germany

**Telephone:** +49 (0) 33438 14790

**Telefax:** +49 (0) 33438 147929

**E-mail:** info@euroteam-bauchemie.de

**Website:** www.euroteam-bauchemie.de

**E-mail (competent person):** info@euroteam-bauchemie.de

#### 1.4. Emergency telephone number

Labor, 24h: +49 (0) 162 2599220, Montag - Donnerstag 7:00 - 16:00; Freitag 7:00 - 13:00 +49 (0) 33438 1479 19 (Only available during office hours.)

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 [CLP]:

Hazard classes and hazard categories	Hazard statements	Classification procedure
Skin corrosion/irritation ( <i>Skin Corr. 1B</i> )	H314: Causes severe skin burns and eye damage.	
Respiratory or skin sensitisation ( <i>Skin Sens. 1</i> )	H317: May cause an allergic skin reaction.	
Hazardous to the aquatic environment ( <i>Aquatic Chronic 3</i> )	H412: Harmful to aquatic life with long lasting effects.	
Acute toxicity (oral) ( <i>Acute Tox. 4</i> )	H302: Harmful if swallowed.	
Acute toxicity (dermal) ( <i>Acute Tox. 4</i> )	H312: Harmful in contact with skin.	

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### 2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms:



**GHS05**  
Corrosion



**GHS07**  
Exclamation mark

Signal word: Danger

Hazard components for labelling:

2-piperazin-1-ylethylamine; 3,6,9-triazaundecamethylenediamine

#### hazard statements for health hazards

H302	Harmful if swallowed.
H312	Harmful in contact with skin.
H314	Causes severe skin burns and eye damage.
H317	May cause an allergic skin reaction.

#### Hazard statements for environmental hazards

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

#### Precautionary statements Prevention

P280	Wear protective gloves/protective clothing/eye protection/face protection.
------	--

#### Precautionary statements Response

P302 + P352	IF ON SKIN: Wash with plenty of soap and water.
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.




### 2.3. Other hazards

No data available

## SECTION 3: Composition / information on ingredients

### 3.2. Mixtures

Hazardous ingredients / Hazardous impurities / Stabilisers:

product identifiers	Substance name Classification according to Regulation (EC) No 1272/2008 [CLP]	Concentration
CAS No.: 140-31-8 EC No.: 205-411-0 REACH No.: 01-2119471486-30-XXXX	<b>2-piperazin-1-ylethylamine</b> The substance is classified as not hazardous according to regulation (EC) No 1272/2008 [CLP].	45 - 50 %
CAS No.: 112-57-2 EC No.: 203-986-2 REACH No.: 01-2119487290-37-XXXX	<b>3,6,9-triazaundecamethylenediamine</b> Acute Tox. 4, Aquatic Chronic 2, Skin Corr. 1B, Skin Sens. 1    <b>Danger</b> H302-H312-H314-H317-H411	2.5 - 5 %

Full text of H- and EUH-phrases: see section 16.

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

General information:

Take off immediately all contaminated clothing.

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### Following inhalation:

Remove casualty to fresh air and keep warm and at rest. If breathing is irregular or stopped, administer artificial respiration. In case of respiratory tract irritation, consult a physician. Apply cortisone spray at early stage. If unconscious place in recovery position and seek medical advice.

### In case of skin contact:

Wash immediately with: Water. For cleaning up: Polyethylene glycol 400 Subsequently wash off with: Water. Call a physician immediately.

### After eye contact:

In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist. Call a physician immediately.

### After ingestion:

Do NOT induce vomiting. Rinse mouth immediately and drink plenty of water.

### Self-protection of the first aider:

First aider: Pay attention to self-protection!

### 4.2. Most important symptoms and effects, both acute and delayed

No known symptoms to date.

### 4.3. Indication of any immediate medical attention and special treatment needed

none

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

#### Suitable extinguishing media:

alcohol resistant foam, Extinguishing powder, Carbon dioxide (CO<sub>2</sub>), Water spray jet

#### Unsuitable extinguishing media:

Full water jet

### 5.2. Special hazards arising from the substance or mixture

Harmful: danger of serious damage to health by prolonged exposure through inhalation.

#### Hazardous combustion products:

In case of fire may be liberated: Carbon dioxide (CO<sub>2</sub>), Nitrogen oxides (NO<sub>x</sub>), Carbon monoxide

### 5.3. Advice for firefighters

In case of fire: Wear self-contained breathing apparatus.

### 5.4. Additional information

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

#### 6.1.1. For non-emergency personnel

##### Personal precautions:

Provide adequate ventilation. Avoid: Inhalation of vapours or spray/mists. Safe handling: see section 7, Personal protection equipment: see section 8

#### 6.1.2. For emergency responders

No data available

### 6.2. Environmental precautions

Do not allow to enter into surface water or drains. In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

### 6.3. Methods and material for containment and cleaning up

#### For cleaning up:

Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents). Treat the recovered material as prescribed in the section on waste disposal.

### 6.4. Reference to other sections

No data available



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## EURODUR EPV 0411 groundfix Komponente B\_schnell

### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

##### Protective measures

##### Advices on safe handling:

Avoid: Skin contact, Eye contact, Inhalation of vapours or spray/mists. When using do not eat, drink or smoke.

##### Advices on general occupational hygiene

Wash hands before breaks and after work. Apply skin care products after work. Use protective skin cream before handling the product.

#### 7.2. Conditions for safe storage, including any incompatibilities

##### Technical measures and storage conditions:

Keep container tightly closed.

##### Requirements for storage rooms and vessels:

Keep container tightly closed and dry. To follow: Recommended storage temperature

##### Hints on storage assembly:

Keep away from food, drink and animal feedingstuffs.

**Storage class:** 8A - Combustible corrosive substances

#### 7.3. Specific end use(s)

##### Industrial sector specific solutions:

Epoxy resin products, solvent-free, sensitising

##### GISCODE:

RE1

### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

##### 8.1.1. Occupational exposure limit values

No data available

##### 8.1.2. Biological limit values

No data available

##### 8.1.3. DNEL-/PNEC-values

Substance name	DNEL value	① DNEL type ② Exposure route
2-piperazin-1-ylethylamine CAS No.: 140-31-8	21.4 mg/m <sup>3</sup>	① DNEL worker ② inhalative, short-term, systemic, (acute)
2-piperazin-1-ylethylamine CAS No.: 140-31-8	20 mg/kg	① DNEL worker ② Acute - dermal, systemic effects

Substance name	PNEC Value	① PNEC type
2-piperazin-1-ylethylamine CAS No.: 140-31-8	0.058 mg/l	① PNEC aquatic, freshwater
2-piperazin-1-ylethylamine CAS No.: 140-31-8	0.0058 mg/l	① PNEC aquatic, marine water

#### 8.2. Exposure controls

##### 8.2.1. Appropriate engineering controls

No data available

##### 8.2.2. Personal protection equipment

##### Eye/face protection:

Eye glasses with side protection

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### Skin protection:

Wear protective gloves. Suitable gloves type: plastic. When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. Check leak tightness/impermeability prior to use. Use protective skin cream before handling the product. Suitable material: NBR (Nitrile rubber), FKM (fluoro rubber). Thickness of the glove material:  $\geq 0,5$  mm. Breakthrough time (maximum wearing time):  $\geq 480$  min. Breakthrough times and swelling properties of the material must be taken into consideration. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves. Wear suitable protective clothing.

### Respiratory protection:

Respiratory protection necessary at: exceeding exposure limit values. Suitable respiratory protection apparatus: Half-face mask or quarter facepiece: maximum use concentration for substances with exposure limits: P1 filter: up to a max. of 4 times the exposure limit. P2 filter: up to a max. of 10 times the exposure limit. P3 filter: up to a max. of 30 times the expo.

### Other protection measures:

Keep away from food, drink and animal feedingstuffs. Take off immediately all contaminated clothing and wash it before reuse. Wear suitable protective clothing. Wash hands before breaks and after work.

### 8.2.3. Environmental exposure controls

No data available

## SECTION 9: Physical and chemical properties

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

#### Appearance

**Physical state:** Liquid

**Colour:** yellow

**Odour:** Amines

#### Safety relevant basis data

parameter		at °C	Method	Remark
pH	<i>not determined</i>			
Melting point	<i>not determined</i>			
Freezing point	<i>not determined</i>			
Initial boiling point and boiling range	> 200 °C			
Decomposition temperature	<i>not determined</i>			
Flash point	> 93 °C			
Evaporation rate	<i>not determined</i>			
Auto-ignition temperature	<i>not determined</i>			
Upper/lower flammability or explosive limits	<i>not determined</i>			
Vapour pressure	< 1 hPa	50 °C		
Vapour density	<i>not determined</i>			
Density	$\approx 1$ g/cm <sup>3</sup>	23 °C		
Bulk density	<i>not determined</i>			
Water solubility	<i>not determined</i>			
Partition coefficient: n-octanol/water	<i>not determined</i>			
Dynamic viscosity	<i>not determined</i>			
Kinematic viscosity	<i>not determined</i>			
flow time	45 - 65 s	23 °C		

### 9.2. Other information

No data available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

No information available.

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### 10.2. Chemical stability

No information available.

### 10.3. Possibility of hazardous reactions

No information available.

### 10.4. Conditions to avoid

none

### 10.5. Incompatible materials

Incompatible materials: Strong acid, Alkalis, Oxidising agent

### 10.6. Hazardous decomposition products

Nitrogen oxides (NO<sub>x</sub>), Carbon dioxide (CO<sub>2</sub>), Carbon monoxide

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

CAS No.	Substance name	Toxicological information
112-57-2	3,6,9-triazaundecamethylenediamine	<b>LD<sub>50</sub> oral:</b> 3,990 mg/kg (Rat) <b>LD<sub>50</sub> dermal:</b> 660 mg/kg (Rabbit)

#### Skin corrosion/irritation:

corrosive

#### Serious eye damage/irritation:

Corrosive

#### Additional information:

Skin corrosion/irritation, Causes serious eye damage. The product is skin resorptive. Sensitising. Harmful if swallowed. IF INHALED: Do not breathe gas/vapour. Adverse human health effects and symptoms: Dizziness, Headache, Nausea.

## SECTION 12: Ecological information

### 12.1. Toxicity

CAS No.	Substance name	Toxicological information
140-31-8	2-piperazin-1-ylethylamine	<b>LC<sub>50</sub>:</b> 2,190 mg/l 4 d (fish, Pimephales promelas (fathead minnow)) OECD 203 <b>EC<sub>50</sub>:</b> 58 mg/l 2 d (crustaceans, Daphnia magna (Big water flea)) OECD 202 <b>ErC<sub>50</sub>:</b> >1,000 mg/l 3 d (Algae/water plant, Pseudokirchneriella subcapitata) OECD 201 <b>EC<sub>50</sub>:</b> 494 mg/l 2 d (Algae/water plant, Selenastrum capricornutum) <b>LC<sub>50</sub>:</b> 368 mg/l 4 d (fish, Poecilia reticulata (Guppy))
112-57-2	3,6,9-triazaundecamethylenediamine	<b>EC<sub>50</sub>:</b> 14.6 mg/l 2 d (crustaceans, Daphnia magna (Big water flea))

#### Aquatic toxicity:

No information available.

#### Additional ecotoxicological information:

No information available.

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### 12.2. Persistence and degradability

CAS No.	Substance name	Biodegradation	Remark
140-31-8	2-piperazin-1-ylethylamine	No	Biodegradation: 0 %, Test duration: 28 d, Method: OECD F

#### Additional information:

No information available.

### 12.3. Bioaccumulative potential

CAS No.	Substance name	Log K <sub>OW</sub>	Bioconcentration factor (BCF)
140-31-8	2-piperazin-1-ylethylamine	-1.48	

#### Accumulation / Evaluation:

No information available.

### 12.4. Mobility in soil

No information available.

### 12.5. Results of PBT and vPvB assessment

CAS No.	Substance name	Results of PBT and vPvB assessment
140-31-8	2-piperazin-1-ylethylamine	—
112-57-2	3,6,9-triazaundecamethylenediamine	—

No information available.

### 12.6. Other adverse effects

Do not allow to enter into surface water or drains.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Dispose of waste according to applicable legislation.

#### 13.1.1. Product/Packaging disposal





Waste codes/waste designations according to EWC/AVV

#### Waste code product:

08 01 11 \* Waste paint and varnish containing organic solvents or other dangerous substances

\*: Evidence for disposal must be provided.

## SECTION 14: Transport information

Land transport (ADR/RID)	Inland waterway craft (ADN)	Sea transport (IMDG)	Air transport (ICAO-TI / IATA-DGR)
<b>14.1. UN-No.</b>			
UN 2735	UN 2735	UN 2735	UN 2735
<b>14.2. UN proper shipping name</b>			
POLYAMINES, LIQUID, CORROSIVE, N.O.S. (2-piperazin-1-ylethylamine , 3,6,9-triazaundecamethylenediamine )	POLYAMINES, LIQUID, CORROSIVE, N.O.S. (2-piperazin-1-ylethylamine , 3,6,9-triazaundecamethylenediamine )	POLYAMINES, LIQUID, CORROSIVE, N.O.S. (2-piperazin-1-ylethylamine , 3,6,9-triazaundecamethylenediamine )	POLYAMINES, LIQUID, CORROSIVE, N.O.S. (2-piperazin-1-ylethylamine , 3,6,9-triazaundecamethylenediamine )
<b>14.3. Transport hazard class(es)</b>			
 8	 8	 8	 8

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Land transport (ADR/RID)	Inland waterway craft (ADN)	Sea transport (IMDG)	Air transport (ICAO-TI / IATA-DGR)
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### 14.4. Packing group

III	III	III	III
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### 14.5. Environmental hazards

No data available

### 14.6. Special precautions for user

Special provisions: E 1	Special provisions: Excepted Quantities (EQ): Classification code: C7 Remark:	Special provisions: E 1 Limited quantity (LQ): 5 L Excepted Quantities (EQ): EmS-No.: F-A, ; S-B Remark:	Special provisions: E 1 Excepted Quantities (EQ): Remark:
Limited quantity (LQ): 7 L Excepted Quantities (EQ): Hazard identification number (Kemler No.): 80 Classification code: C7 tunnel restriction code: (E) Remark:			

### 14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

No data available

## SECTION 15: Regulatory information

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

#### 15.1.1. EU legislation

No data available

#### 15.1.2. National regulations

 [DE] National regulations

#### Water hazard class (WGK)

##### WGK:

2 - deutlich wassergefährdend

#### Berufsgenossenschaftliche Vorschriften (BGV)

Berufsgenossenschaftliche Vorschriften (BGV): D 25 Berufsgenossenschaftliche Informationen (BGI): 595  
Berufsgenossenschaftliche Regeln (BGR): 227

### 15.2. Chemical Safety Assessment

For this substance a chemical safety assessment has not been carried out.

## SECTION 16: Other information

### 16.1. Indication of changes

No data available

### 16.2. Abbreviations and acronyms

No data available

### 16.3. Key literature references and sources for data

No data available

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### 16.4. Classification for mixtures and used evaluation method according to regulation (EC) No 1272/2008 [CLP]

#### Classification according to Regulation (EC) No 1272/2008 [CLP]:

Hazard classes and hazard categories	Hazard statements	Classification procedure
Skin corrosion/irritation ( <i>Skin Corr. 1B</i> )	H314: Causes severe skin burns and eye damage.	
Respiratory or skin sensitisation ( <i>Skin Sens. 1</i> )	H317: May cause an allergic skin reaction.	
Hazardous to the aquatic environment ( <i>Aquatic Chronic 3</i> )	H412: Harmful to aquatic life with long lasting effects.	
Acute toxicity (oral) ( <i>Acute Tox. 4</i> )	H302: Harmful if swallowed.	
Acute toxicity (dermal) ( <i>Acute Tox. 4</i> )	H312: Harmful in contact with skin.	

### 16.5. Relevant R-, H- and EUH-phrases (Number and full text)

Hazard statements	
H302	Harmful if swallowed.
H312	Harmful in contact with skin.
H314	Causes severe skin burns and eye damage.
H317	May cause an allergic skin reaction.
H411	Toxic to aquatic life with long lasting effects.

### 16.6. Training advice

No data available

### 16.7. Additional information

No data available