

# SAFETY DATA SHEET

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

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Version: 4.2

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**EUROTEAM**  
construction chemicals



## EURODUR EPH 0402 Komponente A

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

#### 1.1. Product identifier

Trade name/designation:

**EURODUR EPH 0402 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 2</i> )	H411: Toxic 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



**GHS09**

Environment

**Signal word:** Warning

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### Hazard components for labelling:

4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane; Oxirane, mono[(C12-14-alkyloxy)methyl] derivs.

#### 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

H411	Toxic to aquatic life with long lasting effects.
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#### Supplemental Hazard information (EU)

EUH208	Contains Octadecanamide, N,N'-1,6-hexanedylbis-12-hydroxy-, 4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, Oxirane, mono[(C12-14-alkyloxy)methyl] derivs.. May produce an allergic reaction.
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#### Precautionary statements Prevention

P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing/eye protection/face protection.

#### Precautionary statements Response

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

### Special rules for supplemental label elements for certain mixtures:

10,0 % percent of the mixture consists of ingredient(s) of unknown acute toxicity (dermal).

68,0 % percent of the mixture consists of ingredient(s) of unknown acute toxicity (inhalative).

10,9 % percent of the mixture consists of components of unknown hazards to the aquatic environment.

### 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.: 25068-38-6 EC No.: 500-033-5	<b>4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane</b> Aquatic Chronic 2, Eye Irrit. 2, Skin Irrit. 2, Skin Sens. 1 <b>Warning</b> H315-H317-H319-H411	24 - ≤ 40 Wt %
CAS No.: 68611-50-7	<b>LIQUID POLYSULFIDE POLYMER WITH THIOL END GROUPS (MW &lt;1800)</b> Aquatic Chronic 2 H411	10 - ≤ 18 Wt %
CAS No.: 68609-97-2 EC No.: 271-846-8	<b>Oxirane, mono[(C12-14-alkyloxy)methyl] derivs.</b> Skin Irrit. 2, Skin Sens. 1 <b>Warning</b> H315-H317	6 - ≤ 10 Wt %
CAS No.: 55349-01-4 EC No.: 611-260-5	<b>Octadecanamide, N,N'-1,6-hexanedylbis-12-hydroxy-</b> Aquatic Chronic 4, Skin Sens. 1B <b>Warning</b> H317-H413	0 - ≤ 0.15 Wt %

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

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### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

**General information:**

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible). Remove victim out of the danger area. Remove contaminated, saturated clothing. If unconscious place in recovery position and seek medical advice. Do not leave affected person unattended.

**Following inhalation:**

Provide fresh air. In case of respiratory tract irritation, consult a physician.

**In case of skin contact:**

After contact with skin, wash immediately with plenty of water and soap. If skin irritation or rash occurs: Get medical advice/attention. Take off immediately all contaminated clothing.

**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.

**After ingestion:**

Get medical advice/attention if you feel unwell. Rinse mouth. Let water be drunken in little sips (dilution effect).

**Self-protection of the first aider:**

Use personal protection equipment.

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

Skin corrosion/irritation Allergic reactions Serious eye damage/eye irritation

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

Treat symptomatically.

### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

**Suitable extinguishing media:**

Foam, Dry 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

Carbon monoxide

**Hazardous combustion products:**

In case of fire: Gases/vapours, toxic

#### 5.3. Advice for firefighters

Wear a self-contained breathing apparatus and chemical protective clothing.

#### 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:**

Remove persons to safety.

**Protective equipment:**

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

##### 6.1.2. For emergency responders

**Personal protection equipment:**

Personal protection equipment: see section 8

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### 6.2. Environmental precautions

Do not allow to enter into surface water or drains.

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

#### For containment:

Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents).

### 6.4. Reference to other sections

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

### 6.5. Additional information

Use appropriate container to avoid environmental contamination.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

#### Protective measures

#### Advices on safe handling:

Do not breathe gas/fumes/vapour/spray. Wear personal protection equipment (refer to section 8).

#### Fire prevent measures:

Usual measures for fire prevention.

#### Environmental precautions:

Do not allow to enter into soil/subsoil.

#### Advices on general occupational hygiene

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

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

#### Technical measures and storage conditions:

Keep container tightly closed in a cool, well-ventilated place.

#### Packaging materials:

Suitable container/equipment material: Tin

#### Requirements for storage rooms and vessels:

Keep/Store only in original container. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Protect against direct sunlight.

#### Further information on storage conditions:

Recommended storage temperature: +10 °C - +30 °C.

### 7.3. Specific end use(s)

No data available

## 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

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### 8.1.3. DNEL-/PNEC-values

Substance name	DNEL value	① DNEL type ② Exposure route
4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane CAS No.: 25068-38-6	12.3 g/m <sup>3</sup>	① DNEL worker ② DNEL acute inhalative (systemic)
4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane CAS No.: 25068-38-6	12.3 g/m <sup>3</sup>	① DNEL worker ② DNEL long-term inhalative (systemic)
4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane CAS No.: 25068-38-6	8.3 mg/kg	① DNEL worker ② DNEL acute dermal, short-term (systemic)
4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane CAS No.: 25068-38-6	8.3 mg/kg	① DNEL worker ② DNEL long-term dermal (systemic)

Substance name	PNEC Value	① PNEC type
4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane CAS No.: 25068-38-6	0.003 mg/l	① PNEC aquatic, freshwater

### 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 (DIN EN 166)

##### Skin protection:

Recommended material: Butyl caoutchouc (butyl rubber), FKM (fluoro rubber), PVC (polyvinyl chloride), CR (polychloroprene, chloroprene rubber), NBR (Nitrile rubber) Tested protective gloves must be worn EN ISO 374. In the case of wanting to use the gloves again, clean them before taking off and air them well. Suitable material: Breakthrough time (maximum wearing time) min Breakthrough times and swelling properties of the material must be taken into consideration.

##### Respiratory protection:

(Combination filtering device (EN 14387)) If technical exhaust or ventilation measures are not possible or insufficient, respiratory protection must be worn.

##### Other protection measures:

Avoid: Inhalation of vapours or spray/mists. Avoid contact with eyes and skin. Wash hands before breaks and after work. Apply skin care products 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: grey

Odour: not determined

#### 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	<i>not determined</i>			
Decomposition temperature	<i>not determined</i>			

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parameter		at °C	Method	Remark
Flash point	> 100 °C			
Evaporation rate	not determined			
Auto-ignition temperature	not determined			
Upper/lower flammability or explosive limits	not determined			
Vapour pressure	not determined			
Vapour density	not determined			
Density	1.4 - 1.5 g/cm <sup>3</sup>	23 °C		
Bulk density	not determined			
Water solubility	not determined			
Partition coefficient: n-octanol/ water	not determined			
Dynamic viscosity	1 - 10 Pa*s	23 °C		
Kinematic viscosity	not determined	40 °C		

### 9.2. Other information

No data available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

The product is stable under storage at normal ambient temperatures.

### 10.2. Chemical stability

The mixture is chemically stable under recommended conditions of storage, use and temperature.

### 10.3. Possibility of hazardous reactions

No data available

### 10.4. Conditions to avoid

Safe handling: see section 7

### 10.5. Incompatible materials

No data available

### 10.6. Hazardous decomposition products

Hydrogen chloride (HCl), Nitrogen oxides (NO<sub>x</sub>), Sulphur dioxide (SO<sub>2</sub>), Hydrogen sulphide (H<sub>2</sub>S), Formaldehyde, Mercaptan

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

CAS No.	Substance name	Toxicological information
25068-38-6	4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane	<b>LD<sub>50</sub> oral:</b> 11,400 mg/kg (Rat) <b>LD<sub>50</sub> dermal:</b> >22,800 mg/kg (Rabbit)
68611-50-7	LIQUID POLYSULFIDE POLYMER WITH THIOL END GROUPS (MW <1800)	<b>LD<sub>50</sub> oral:</b> >5,000 mg/kg (Rat) <b>LD<sub>50</sub> dermal:</b> >7,800 mg/kg (Rat)
68609-97-2	Oxirane, mono[(C12-14-alkyloxy)methyl] derivs.	<b>LD<sub>50</sub> oral:</b> 17,100 mg/kg (Rat)

#### Acute oral toxicity:

Based on available data, the classification criteria are not met.

#### Acute dermal toxicity:

Based on available data, the classification criteria are not met.

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### Acute inhalation toxicity:

Based on available data, the classification criteria are not met.

### Skin corrosion/irritation:

Causes burns.

### Serious eye damage/irritation:

Causes serious eye irritation.

### Respiratory or skin sensitisation:

May cause an allergic skin reaction. Contains Octadecanamide, N,N'-1,6-hexanedylbis-12-hydroxy-, 4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, Oxirane, mono[(C12-14-alkyloxy)methyl] derivs.. May produce an allergic 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.

### Additional information:

The product has not been tested. The statement is derived from the properties of the single components.

## SECTION 12: Ecological information

### 12.1. Toxicity

CAS No.	Substance name	Toxicological information
25068-38-6	4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane	<b>EC<sub>50</sub></b> : 220 mg/l 4 d (Scenedesmus subspicatus) <b>EC<sub>50</sub></b> : 3.6 mg/l 4 d (Leuciscus idus (golden orfe)) <b>EC<sub>50</sub></b> : 2.8 mg/l 2 d (Daphnia magna (Big water flea)) <b>LC<sub>50</sub></b> : 1.3 mg/l 4 d
68611-50-7	LIQUID POLYSULFIDE POLYMER WITH THIOL END GROUPS (MW <1800)	<b>LC<sub>50</sub></b> : 320 mg/l 4 d (Pimephales promelas (fathead minnow)) <b>ErC<sub>50</sub></b> : 17 mg/l 3 d (Selenastrum capricornutum) <b>EC<sub>50</sub></b> : 4.71 mg/l 2 d (Daphnia magna (Big water flea))

### Aquatic toxicity:

Toxic to aquatic life with long lasting effects.

### 12.2. Persistence and degradability

#### Biodegradation:

Poorly biodegradable.

### 12.3. Bioaccumulative potential

CAS No.	Substance name	Log K <sub>OC</sub>	Bioconcentration factor (BCF)
25068-38-6	4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane	3.242	
68609-97-2	Oxirane, mono[(C12-14-alkyloxy)methyl] derivs.	3.77	

### 12.4. Mobility in soil

No data available

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### 12.5. Results of PBT and vPvB assessment

CAS No.	Substance name	Results of PBT and vPvB assessment
25068-38-6	4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane	—
68611-50-7	LIQUID POLYSULFIDE POLYMER WITH THIOL END GROUPS (MW <1800)	—
68609-97-2	Oxirane, mono[(C12-14-alkyloxy)methyl] derivs.	—
55349-01-4	Octadecanamide, N,N'-1,6-hexanedylbis-12-hydroxy-	—

### 12.6. Other adverse effects

No data available

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

#### 13.1.1. Product/Packaging disposal

Waste codes/waste designations according to EWC/AVV

#### Waste code product:

08 04 09 \* Waste adhesives and sealants containing organic solvents or other dangerous substances

\*: Evidence for disposal must be provided.

#### Waste treatment options





##### Appropriate disposal / Product:

Dispose of waste according to applicable legislation. Consult the appropriate local waste disposal expert about waste disposal.

##### Appropriate disposal / Package:

Completely emptied packages can be recycled.

## 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 3082	UN 3082	UN 3082	UN 3082
<b>14.2. UN proper shipping name</b>			
ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, LIQUID POLYSULFIDE POLYMER WITH THIOL END GROUPS (MW <1800))	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, LIQUID POLYSULFIDE POLYMER WITH THIOL END GROUPS (MW <1800))	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, LIQUID POLYSULFIDE POLYMER WITH THIOL END GROUPS (MW <1800))	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, LIQUID POLYSULFIDE POLYMER WITH THIOL END GROUPS (MW <1800))
<b>14.3. Transport hazard class(es)</b>			
 9	 9	 9	 9
<b>14.4. Packing group</b>			
III	III	III	III



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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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### 14.5. Environmental hazards

		 MARINE POLLUTANT	
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### 14.6. Special precautions for user

<b>Special provisions:</b> 274   335   375   601 <b>Limited quantity (LQ):</b> 5 L <b>Excepted Quantities:</b> E1 <b>Hazard identification number (Kemler No.):</b> 90 <b>Classification code:</b> M6 <b>Remark:</b>	<b>Special provisions:</b> 274   335   375   601 <b>Limited quantity (LQ):</b> 5 L <b>Excepted Quantities:</b> E1 <b>Classification code:</b> M6 <b>Remark:</b>	<b>Special provisions:</b> 274   335   969 <b>Limited quantity (LQ):</b> 5 L <b>Excepted Quantities:</b> E1 <b>EmS-No.:</b> F-A, S-F <b>Remark:</b>	<b>Special provisions:</b> A97   A158   A197 <b>Excepted Quantities:</b> E1 <b>Remark:</b>
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**14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**  
Only use containers specifically approved for the substance/product.

## 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

#### Technische Anleitung Luft (TA-Luft)

##### Anteil 1:

0.5 %

#### Water hazard class (WGK)

##### WGK:

2 - deutlich wassergefährdend

### 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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## EURODUR EPH 0402 Komponente A

### 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 2</i> )	H411: Toxic to aquatic life with long lasting effects.	

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

Hazard statements	
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.
H413	May cause long lasting harmful effects to aquatic life.

### 16.6. Training advice

No data available

### 16.7. Additional information

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

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## EURODUR EPH 0402 Komponente B

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

#### 1.1. Product identifier

Trade name/designation:

**EURODUR EPH 0402 Komponente B**

#### 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
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.	
Skin corrosion/irritation ( <i>Skin Corr. 1</i> )	H314: Causes severe skin burns and eye damage.	
Respiratory or skin sensitisation ( <i>Skin Sens. 1A</i> )	H317: May cause an allergic skin reaction.	
Serious eye damage/eye irritation ( <i>Eye Dam. 1</i> )	H318: Causes serious eye damage.	
Reproductive toxicity ( <i>Repr. 2</i> )	H361: Suspected of damaging fertility or the unborn child.	
STOT-repeated exposure ( <i>STOT RE 1</i> )	H372: Causes damage to organs through prolonged or repeated exposure. (...)	
Hazardous to the aquatic environment ( <i>Aquatic Chronic 3</i> )	H412: Harmful to aquatic life with long lasting effects.	

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### 2.2. Label elements

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

Hazard pictograms:



**GHS08**  
Health hazard



**GHS05**  
Corrosion



**GHS07**  
Exclamation mark

Signal word: Danger

Hazard components for labelling:

1,3-Cyclohexanedimethanamine; 2-piperazin-1-ylethylamine; salicylic acid; 1,3-Benzenedimethanamine

hazard statements for health hazards	
H302 + H312	Harmful if swallowed or in contact with skin.
H314	Causes severe skin burns and eye damage.
H317	May cause an allergic skin reaction.
H361	Suspected of damaging fertility or the unborn child.
H372	Causes damage to organs through prolonged or repeated exposure. (...)

Hazard statements for environmental hazards	
H412	Harmful to aquatic life with long lasting effects.

Supplemental Hazard information (EU)	
EUH208	Contains 2-piperazin-1-ylethylamine, resorcinol, Phenol, styrenated, 1,3-Benzenedimethanamine. May produce an allergic reaction.

Precautionary statements Prevention	
P260	Do not breathe dust/fume/gas/mist/vapours/spray.
P280	Wear protective gloves/protective clothing/eye protection/face protection.

Precautionary statements Response	
P303 + P361 + P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or 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.

Special rules for supplemental label elements for certain mixtures:

14,7 % percent of the mixture consists of ingredient(s) of unknown acute toxicity (dermal).

25,7 % percent of the mixture consists of ingredient(s) of unknown acute toxicity (inhalative).

14,7 % percent of the mixture consists of components of unknown hazards to the aquatic environment.

### 2.3. Other hazards

No data available

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### 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> 2579-20-6 <b>EC No.:</b> 219-941-5 <b>REACH No.:</b> 01-2119543741-41-XXXX	<b>1,3-Cyclohexanedimethanamine</b> Acute Tox. 4, Aquatic Chronic 3, Eye Dam. 1, Skin Corr. 1A H302-H312-H314-H318-H412	≥ 25 - < 50 Wt %
<b>CAS No.:</b> 140-31-8 <b>EC No.:</b> 205-411-0 <b>REACH No.:</b> 01-2119471486-30-XXXX	<b>2-piperazin-1-ylethylamine</b> Acute Tox. 3, Acute Tox. 4, Aquatic Chronic 3, Skin Corr. 1B, Skin Sens. 1 H302-H311-H314-H317-H412	≥ 25 - < 50 Wt %
<b>CAS No.:</b> 61788-44-1 <b>EC No.:</b> 262-975-0 <b>REACH No.:</b> 01-2119980970-27-XXXX	<b>Phenol, styrenated</b> Aquatic Chronic 2, Eye Irrit. 2, Skin Irrit. 2, Skin Sens. 1A H315-H317-H319-H411	≥ 10 - < 25 Wt %
<b>CAS No.:</b> 69-72-7 <b>EC No.:</b> 200-712-3 <b>REACH No.:</b> 01-2119486984-17-XXXX	<b>salicylic acid</b> Acute Tox. 4, Eye Dam. 1 H302-H318	≥ 5 - < 15 Wt %
<b>CAS No.:</b> 1477-55-0 <b>EC No.:</b> 216-032-5 <b>REACH No.:</b> 01-2119480150-50-XXXX	<b>1,3-Benzenedimethanamine</b> Acute Tox. 3, Acute Tox. 4, Aquatic Chronic 3, Skin Corr. 1B, Skin Sens. 1B H302-H312-H314-H317-H331-H412	≥ 2.5 - < 15 Wt %
<b>CAS No.:</b> 108-46-3 <b>EC No.:</b> 203-585-2 <b>REACH No.:</b> 01-2119480136-40-XXXX	<b>resorcinol</b> Acute Tox. 4, Aquatic Acute 1, Eye Irrit. 2, Skin Irrit. 2, Skin Sens. 1 H302-H315-H317-H319-H400	≥ 1 - < 5 Wt %

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

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

##### General information:

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible). Remove victim out of the danger area. Remove contaminated, saturated clothing. If unconscious place in recovery position and seek medical advice. Do not leave affected person unattended. Warning First aider: Pay attention to self-protection!

##### Following inhalation:

Provide fresh air. In case of respiratory tract irritation, consult a physician.

##### In case of skin contact:

After contact with skin, wash immediately with plenty of water and soap. Get immediate medical advice/attention. Take off immediately all contaminated clothing and wash it before reuse. If skin irritation or rash occurs: Get medical advice/attention.

##### 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. Consult an ophthalmologist.

##### After ingestion:

Rinse mouth immediately and drink plenty of water. Do NOT induce vomiting. Get immediate medical advice/attention. Never give anything by mouth to an unconscious person or a person with cramps.

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### Self-protection of the first aider:

Use personal protection equipment. No direct artificial respiration to be given by first aider. Avoid contact with skin, eyes and clothes.

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

To follow: SECTION 4: First aid measures, SECTION 11: Toxicological information Skin corrosion/irritation Allergic reactions Serious eye damage/eye irritation

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

Treat symptomatically. After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately. Rinse immediately carefully and thoroughly with eye-bath or water. Adverse human health effects and symptoms: Gastrointestinal complaints. Causes burns.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

#### Suitable extinguishing media:

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

#### Unsuitable extinguishing media:

Full water jet

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

Carbon dioxide (CO<sub>2</sub>), Nitrogen oxides (NO<sub>x</sub>), carbon black, Carbon monoxide Danger of bursting container.

#### Hazardous combustion products:

In case of fire: Gases/vapours, toxic

### 5.3. Advice for firefighters

Wear a self-contained breathing apparatus and chemical protective clothing. The danger areas must be delimited and identified using relevant warning and safety signs. Use water spray jet to protect personnel and to cool endangered containers. none Full water jet.

### 5.4. Additional information

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water. SECTION 6: Accidental release measures, SECTION 12: Ecological information

## SECTION 6: Accidental release measures

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

#### 6.1.1. For non-emergency personnel

##### Personal precautions:

Remove persons to safety. Use personal protection equipment. Evacuate area.

##### Protective equipment:

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

#### 6.1.2. For emergency responders

##### Personal protection equipment:

Personal protection equipment: see section 8

### 6.2. Environmental precautions

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil.

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

#### For containment:

Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents).

### 6.4. Reference to other sections

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

### 6.5. Additional information

Use appropriate container to avoid environmental contamination.

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### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

##### Protective measures

##### Advices on safe handling:

Wear personal protection equipment (refer to section 8). Do not breathe gas/fumes/vapour/spray.

Avoid: Eye contact, Skin contact. Take off contaminated clothing and wash it before reuse. Always close containers tightly after the removal of product. Ensure adequate ventilation of the storage area.

##### Fire prevent measures:

Usual measures for fire prevention.

##### Environmental precautions:

Do not allow to enter into soil/subsoil.

##### Advices on general occupational hygiene

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

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

##### Technical measures and storage conditions:

Keep container tightly closed in a cool, well-ventilated place.

##### Packaging materials:

Suitable container/equipment material: Tin

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

Keep/Store only in original container. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Protect against direct sunlight.

##### Further information on storage conditions:

To follow: Maximum storage period (time). storage temperature: 5 - 30 °C

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

##### Recommendation:

Observe technical data sheet.

### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

##### 8.1.1. Occupational exposure limit values

Limit value type (country of origin)	Substance name	① long-term occupational exposure limit value ② short-term occupational exposure limit value ③ Instantaneous value ④ Monitoring and observation processes ⑤ Remark
TRGS 900 (DE)	resorcinol CAS No.: 108-46-3	① 4 ppm (20 mg/m <sup>3</sup> ) ② 4 ppm (20 mg/m <sup>3</sup> ) ⑤ (einatembare Fraktion, kann über die Haut aufgenommen werden)
IOELV (EU)	resorcinol CAS No.: 108-46-3	① 10 ppm (45 mg/m <sup>3</sup> ) ⑤ (may be absorbed through the skin)

##### 8.1.2. Biological limit values

No data available

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### 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 DNEL acute inhalative (systemic)
2-piperazin-1-ylethylamine CAS No.: 140-31-8	20 mg/kg	① DNEL worker ② DNEL acute dermal, short-term (systemic)
salicylic acid CAS No.: 69-72-7	2 mg/kg bw/ day	① DNEL worker ② DNEL acute dermal, short-term (local)
1,3-Benzenedimethanamine CAS No.: 1477-55-0	1.2 mg/m <sup>3</sup>	① DNEL worker ② DNEL acute inhalative (local)
1,3-Benzenedimethanamine CAS No.: 1477-55-0	0.33 mg/kg	① DNEL worker ② DNEL acute dermal, short-term (local)

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
salicylic acid CAS No.: 69-72-7	0.2 mg/l	① PNEC aquatic, freshwater
salicylic acid CAS No.: 69-72-7	0.02 mg/l	① PNEC aquatic, marine water
1,3-Benzenedimethanamine CAS No.: 1477-55-0	0.094 mg/l	① PNEC aquatic, freshwater
1,3-Benzenedimethanamine CAS No.: 1477-55-0	0.0094 mg/l	① PNEC aquatic, marine water

### 8.2. Exposure controls

#### 8.2.1. Appropriate engineering controls

If local exhaust ventilation is not possible or not sufficient, the entire working area should be ventilated by technical means. Provide adequate ventilation.

#### 8.2.2. Personal protection equipment

##### Eye/face protection:

Eye glasses with side protection (DIN EN 166)

##### Skin protection:

Recommended material: PE (polyethylene), PVC (polyvinyl chloride), Butyl caoutchouc (butyl rubber), NR (natural rubber, natural latex). Tested protective gloves must be worn EN ISO 374. 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. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. In the case of wanting to use the gloves again, clean them before taking off and air them well. Wear protective gloves/protective clothing/eye protection/face protection. Suitable material: Breakthrough time (maximum wearing time) min Breakthrough times and swelling properties of the material must be taken into consideration.

##### Respiratory protection:

Respiratory protection necessary at: exceeding exposure limit values (Combination filtering device (EN 14387)). Use only respiratory protection equipment with CE-symbol including four digit test number.

##### Other protection measures:

Avoid: Inhalation of vapours or spray/mists. Avoid contact with eyes and skin. Wash hands before breaks and after work. Apply skin care products after work. When using do not eat, drink, smoke, sniff.

#### 8.2.3. Environmental exposure controls

SECTION 7: Handling and storage, SECTION 13: Disposal considerations



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### 8.3. Additional information

Observe the expiry date.

## SECTION 9: Physical and chemical properties

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

#### Appearance

**Physical state:** Liquid

**Colour:** brown

**Odour:** Amines

#### Safety relevant basis data

parameter		at °C	Method	Remark
pH	8 - 11			literature value
Melting point	<i>not determined</i>			
Freezing point	<i>not determined</i>			
Initial boiling point and boiling range	> 200 °C			literature value
Decomposition temperature	<i>No data available</i>			
Flash point	> 100 °C			literature value
Evaporation rate	<i>No data available</i>			
Auto-ignition temperature	<i>No data available</i>			
Upper/lower flammability or explosive limits	<i>not determined</i>			
Vapour pressure	< 5 hPa	50 °C		literature value
Vapour density	<i>No data available</i>			
Density	1.055	25 °C		literature value
Bulk density	<i>not determined</i>			
Water solubility	very soluble			
Partition coefficient: n-octanol/water	<i>No data available</i>			
Dynamic viscosity	<i>No data available</i>			
Kinematic viscosity	600 cSt	25 °C	ASTM D 445	
VOC-value (in g/L):	0 g/l		This chemical is a VOC according to 2004/42/EC.	

### 9.2. Other information

No data available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

No data available

### 10.2. Chemical stability

The mixture is chemically stable under recommended conditions of storage, use and temperature.

### 10.3. Possibility of hazardous reactions

No hazardous reaction when handled and stored according to provisions.

### 10.4. Conditions to avoid

Keep away from heat.

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### 10.5. Incompatible materials

Materials to avoid: Oxidising agent, Acid, Acrylate, Alcohols, aldehydes, halogenated hydrocarbons, Ketone, Nitrites, Metal articles: Copper, bronze, brass, Copper alloys.

### 10.6. Hazardous decomposition products

Thermal decomposition can lead to the escape of irritating gases and vapours. Hazardous decomposition products: Ammonia (NH<sub>3</sub>), ETHYLENEDIAMINE, Amines, Hydrocarbons, Phenols.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

CAS No.	Substance name	Toxicological information
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)
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)
69-72-7	salicylic acid	<b>LD<sub>50</sub> oral:</b> 891 mg/kg (Rat) <b>LD<sub>50</sub> dermal:</b> >2,000 mg/kg (Rat)
1477-55-0	1,3-Benzenedimethanamine	<b>LD<sub>50</sub> oral:</b> 930 mg/kg (Rat) <b>LD<sub>50</sub> dermal:</b> >3,100 mg/kg (Rabbit)

#### Acute oral toxicity:

IF SWALLOWED: Gastrointestinal complaints LD<sub>50</sub>: > 1000 mg/kg, Rat, estimated Harmful if swallowed.

#### Acute dermal toxicity:

Harmful in contact with skin. LD<sub>50</sub>: > 1000 mg/kg, Rabbit, estimated

#### Acute inhalation toxicity:

The inhalation of dust/mist or aerosols causes irritation of the respiratory tract. LC<sub>50</sub>: not determined

#### Skin corrosion/irritation:

Causes severe skin burns and eye damage.

#### Serious eye damage/irritation:

Causes severe skin burns and eye damage. Causes serious eye damage.

#### Respiratory or skin sensitisation:

May cause an allergic skin reaction. Contains 2-piperazin-1-ylethylamine, resorcinol, Phenol, styrenated, 1,3-Benzenedimethanamine. May produce an allergic reaction.

#### Germ cell mutagenicity:

In vitro mutagenicity/genotoxicity positive.

#### Carcinogenicity:

Longterm experiments do not indicate carcinogenic effects.

#### Reproductive toxicity:

No indications of human reproductive toxicity exist.

#### STOT-single exposure:

Based on available data, the classification criteria are not met.

#### STOT-repeated exposure:

Practical experience/human evidence: Specific effects:Organs affected: heart, Liver and kidney damage, Spleen. Animal data: Organs affected: central nervous system, Respiratory tract, Gastrointestinal complaints

#### Aspiration hazard:

none Aspiration hazard

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### Additional information:

The product has not been tested. The statement is derived from the properties of the single components.

## SECTION 12: Ecological information

### 12.1. Toxicity

CAS No.	Substance name	Toxicological information
2579-20-6	1,3-Cyclohexanedimethanamine	<b>LC<sub>50</sub>:</b> >100 mg/l 4 d (Leuciscus idus (golden orfe)) <b>EC<sub>50</sub>:</b> 29 mg/l 2 d (Daphnia magna (Big water flea)) OECD 202 <b>EC<sub>50</sub>:</b> 276 mg/l 3 d (Pseudokirchneriella subcapitata) OECD 201 <b>EC<sub>50</sub>:</b> ≥1,000 mg/l (Earthworm)
140-31-8	2-piperazin-1-ylethylamine	<b>LC<sub>50</sub>:</b> 2,190 mg/l 4 d (Pimephales promelas (fath ead minnow)) OECD 203 <b>EC<sub>50</sub>:</b> 58 mg/l 2 d (Daphnia magna (Big water flea)) OECD 202 <b>ErC<sub>50</sub>:</b> >1,000 mg/l 3 d (Pseudokirchneriella subcapitata) OECD 201 <b>EC<sub>50</sub>:</b> 494 mg/l 2 d (Selenastrum capricornutum) <b>LC<sub>50</sub>:</b> 368 mg/l 4 d (Poecilia reticulata (Guppy))
61788-44-1	Phenol, styrenated	<b>LC<sub>50</sub>:</b> 14.8 mg/l 4 d (Brachydanio rerio (zebrafish)) OECD 203 <b>EC<sub>50</sub>:</b> >1 - 10 mg/l 2 d (Daphnia magna (Big water flea)) OECD 202 <b>EC<sub>50</sub>:</b> 3.14 mg/l 3 d (Scenedesmus subspicatus) OECD 201 <b>NOEC:</b> 1.9 mg/l 12 d (Oryzias latipes (Ricefish)) <b>NOEC:</b> 0.2 mg/l 21 d (Daphnia magna (Big water flea))
69-72-7	salicylic acid	<b>EC<sub>50</sub>:</b> >100 mg/l 3 d (Desmodesmus subspicatus) <b>EC<sub>50</sub>:</b> 870 mg/l 2 d (Daphnia magna (Big water flea)) <b>LC<sub>50</sub>:</b> 1,380 mg/l 4 d (Pimephales promelas (fath ead minnow))
1477-55-0	1,3-Benzenedimethanamine	<b>EC<sub>50</sub>:</b> 15.2 mg/l 2 d (Daphnia pulex (water flea)) OECD 202 <b>EC<sub>50</sub>:</b> 20.3 mg/l 3 d (Selenastrum capricornutum) <b>LC<sub>50</sub>:</b> 87.6 mg/l 4 d (Oryzias latipes (Ricefish)) <b>LC<sub>50</sub>:</b> >100 mg/l 4 d (Oncorhynchus mykiss (Rainbow trout)) <b>LC<sub>50</sub>:</b> >100 mg/l 4 d (Brachydanio rerio (zebrafish))
108-46-3	resorcinol	<b>LC<sub>50</sub>:</b> >100 mg/l 4 d (Oncorhynchus mykiss (Rainbow trout)) OECD 203 <b>LC<sub>50</sub>:</b> 1.28 mg/l 2 d (Daphnia magna (Big water flea)) <b>EC<sub>50</sub>:</b> <0.8 mg/l 2 d (Daphnia magna (Big water flea)) <b>ErC<sub>50</sub>:</b> 60 mg/l 4 d (Scenedesmus subspicatus) <b>EC<sub>50</sub>:</b> 1.1 mg/l 3 d (Chlorella pyrenoidosa)

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### Aquatic toxicity:

Harmful to aquatic life with long lasting effects.

### 12.2. Persistence and degradability

CAS No.	Substance name	Biodegradation	Remark
2579-20-6	1,3-Cyclohexanedimethanamine	No	Biodegradation: 29 %, Test duration: 28 d, Method: OECD 301B/ ISO 9439/ EEC 92/69/V, C.4-C; Biodegradation: 92 - 96 %, Test duration: 28 d, Method: OECD 303/ EEC 92/69/V, C.10
140-31-8	2-piperazin-1-ylethylamine	No	Biodegradation: 0 %, Test duration: 28 d, Method: OECD F
61788-44-1	Phenol, styrenated	No	Biodegradation: 4 %, Method: 310
69-72-7	salicylic acid	Yes, rapidly	Method: OECD 301C/ ISO 9408/ EEC 92/69/V, C.4-F. Biodegradation: 88,1 %, Test duration: 14 d
1477-55-0	1,3-Benzenedimethanamine	No	Biodegradation: 22 %, Test duration: 28 d, Method: OECD 302 C, Biodegradation: 49 %, Test duration: 28 d, Method: OECD 301B/ ISO 9439/ EEC 92/69/V, C.4-C
108-46-3	resorcinol	Yes, rapidly	Biodegradation: 66,7 %, Test duration: 14 d, Method: OECD 301C/ ISO 9408/ EEC 92/69/V, C.4-F, Biodegradation: 97 %, Test duration: 4 d, Method: OECD 302B/ ISO 9888/ EEC 92/69/V, C.9, Biodegradation: 90 - 95 %, Test duration: 7 - 15 d

### 12.3. Bioaccumulative potential

CAS No.	Substance name	Log K <sub>OC</sub>	Bioconcentration factor (BCF)
2579-20-6	1,3-Cyclohexanedimethanamine	0.44	
140-31-8	2-piperazin-1-ylethylamine	-1.48	
61788-44-1	Phenol, styrenated	4	
69-72-7	salicylic acid	2.26	
1477-55-0	1,3-Benzenedimethanamine	0.18	3 Species: Cyprinus carpio (Common Carp)
108-46-3	resorcinol	0.8	

### Partition coefficient: n-octanol/water:

No data available

### 12.4. Mobility in soil

No data available

### 12.5. Results of PBT and vPvB assessment

CAS No.	Substance name	Results of PBT and vPvB assessment
2579-20-6	1,3-Cyclohexanedimethanamine	—
140-31-8	2-piperazin-1-ylethylamine	—
61788-44-1	Phenol, styrenated	—
1477-55-0	1,3-Benzenedimethanamine	—
108-46-3	resorcinol	—

not determined

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### 12.6. Other adverse effects

The product has not been tested. The statement is derived from the properties of the single components.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Dispose of waste according to applicable legislation.

#### Waste treatment options





##### Appropriate disposal / Product:

Dispose of waste according to applicable legislation. Consult the appropriate local waste disposal expert about waste disposal.

### 13.2. Additional information

Do not allow to enter into surface water or drains.

## 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>			
AMINES, LIQUID, CORROSIVE, N.O.S. (1,3-Cyclohexanedimethanamine, 2-piperazin-1-ylethylamine)	AMINES, LIQUID, CORROSIVE, N.O.S. (1,3-Cyclohexanedimethanamine, 2-piperazin-1-ylethylamine)	AMINES, LIQUID, CORROSIVE, N.O.S. (1,3-Cyclohexanedimethanamine, 2-piperazin-1-ylethylamine, 1,3-Benzenedimethanamine)	AMINES, LIQUID, CORROSIVE, N.O.S. (1,3-Cyclohexanedimethanamine, 2-piperazin-1-ylethylamine)
<b>14.3. Transport hazard class(es)</b>			
 8	 8	 8	 8
<b>14.4. Packing group</b>			
I	I	I	I
<b>14.5. Environmental hazards</b>			
No	No	No	No

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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> 274 <b>Limited quantity (LQ):</b> 0 <b>Excepted Quantities:</b> E0 <b>Hazard identification number (Kemler No.):</b> 88 <b>Classification code:</b> C7 <b>tunnel restriction code:</b> (E) <b>Remark:</b>	<b>Special provisions:</b> 274 <b>Limited quantity (LQ):</b> 0 <b>Excepted Quantities:</b> E0 <b>Classification code:</b> C7 <b>Remark:</b>	<b>Special provisions:</b> 274 <b>Limited quantity (LQ):</b> 0 <b>Excepted Quantities:</b> E0 <b>EmS-No.:</b> F-A, S-B <b>Remark:</b>	<b>Special provisions:</b> A3 <b>Excepted Quantities:</b> E0 <b>Remark:</b>

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

Only use containers specifically approved for the substance/product.

## 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

##### Description:

Classification according to VwVwS, Annex 4.

#### Other regulations, restrictions and prohibition regulations

Not subject to 96/82/EC

### 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
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.	
Skin corrosion/irritation ( <i>Skin Corr. 1</i> )	H314: Causes severe skin burns and eye damage.	
Respiratory or skin sensitisation ( <i>Skin Sens. 1A</i> )	H317: May cause an allergic skin reaction.	
Serious eye damage/eye irritation ( <i>Eye Dam. 1</i> )	H318: Causes serious eye damage.	
Reproductive toxicity ( <i>Repr. 2</i> )	H361: Suspected of damaging fertility or the unborn child.	
STOT-repeated exposure ( <i>STOT RE 1</i> )	H372: Causes damage to organs through prolonged or repeated exposure. (...)	
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.
H311	Toxic in contact with skin.
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.
H319	Causes serious eye irritation.
H331	Toxic if inhaled.
H400	Very toxic to aquatic life.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

### 16.6. Training advice

No data available

### 16.7. Additional information

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.