

# SAFETY DATA SHEET

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

Print date: 10-Jun-2015

Version: 3.0

**EUROTEAM**  
construction chemicals



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## EURODUR EP 0211 Komponente A

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

#### 1.1. Product identifier

Trade name/designation:

**EURODUR EP 0211 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: Private households (= general public = consumers)

#### 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:

benzyl alcohol; reaction product: bisphenol-F-(epichlorhydrin)epoxy resin (number average) molecular weight < 700

#### 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.
------	--

#### Precautionary statements Prevention

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

#### Precautionary statements Response

P302 + P352.1	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.

### Additional information:

Contains epoxy constituents. May produce an allergic reaction.

### 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.: 9003-36-5	reaction product: bisphenol-F-(epichlorhydrin)epoxy resin (number average) molecular weight < 700 Skin Irrit. 2, Eye Irrit. 2, Skin Sens. 1, Aquatic Chronic 2 H315-H317-H319-H411	25 - 50 %
CAS No.: 100-51-6 EC No.: 202-859-9	benzyl alcohol	2.5 - < 3 %

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

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

#### Following inhalation:

Provide fresh air. Call a physician in any case! If unconscious place in recovery position and seek medical advice.

#### 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.

#### After ingestion:

Call a doctor if you feel unwell.

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

No data available

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

No data available

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### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

**Suitable extinguishing media:**

Extinguishing powder, Carbon dioxide (CO<sub>2</sub>), Water spray, alcohol resistant foam. Co-ordinate fire-fighting measures to the fire surroundings.

**Unsuitable extinguishing media:**

Full water jet

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

No data available

#### 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. Dispose of waste according to applicable legislation.

### SECTION 6: Accidental release measures

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

No data available

#### 6.2. Environmental precautions

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

#### 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).

**Other information:**

Provide adequate ventilation.

#### 6.4. Reference to other sections

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

#### 6.5. Additional information

No data available

### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

**Protective measures**

**Advices on safe handling:**

Avoid: Generation/formation of aerosols. If local exhaust ventilation is not possible or not sufficient, the entire working area should be ventilated by technical means. Store in a cool dry place. Keep container tightly closed.

**Fire prevent measures:**

No special fire protection measures are necessary.

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

**Requirements for storage rooms and vessels:**

No special measures are necessary.

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

**Further information on storage conditions:**

Keep container tightly closed and in a well-ventilated place.

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

**Industrial sector specific solutions:**

Epoxy resin products, low in solvents, sensitising

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Giscode:

RE2

### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

No data available

#### 8.2. Exposure controls

##### 8.2.1. Appropriate engineering controls

See section 7. Additional information on plant design:

##### 8.2.2. Personal protection equipment

###### Eye/face protection:

Eye glasses with side protection

###### Skin protection:

Suitable gloves type: NBR (Nitrile rubber), Butyl caoutchouc (butyl rubber). 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. Unsuitable material: Leather articles. Wear protective gloves/protective clothing and eye/face protection.

###### Respiratory protection:

Usually no personal respiratory protection necessary. If technical exhaust or ventilation measures are not possible or insufficient, respiratory protection must be worn.

###### Other protection measures:

Keep away from food, drink and animal feedingstuffs. Remove contaminated, saturated clothing immediately. Wash hands before breaks and after work. Avoid contact with skin and eyes.

##### 8.2.3. Environmental exposure controls

No data available

#### 8.3. Additional information

No data available

### SECTION 9: Physical and chemical properties

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

##### Appearance

Physical state: liquid

Colour: pigmented

Odour: not determined

##### Safety relevant basis data

parameter		at °C	Method	remark
pH	not determined			
Melting point/freezing point	not determined			
Freezing point	not determined			
Initial boiling point and boiling range	not determined			
Decomposition temperature (°C):	not determined			
Flash point	> 100 °C			
Evaporation rate	not determined			
Ignition temperature in °C	167 °C			
Upper/lower flammability or explosive limits	not determined			
Vapour pressure	not determined			
Vapour density	not determined			
Density	1.83 g/cm <sup>3</sup>	20 °C	ISO 2811, part 2	
Bulk density	not determined			
Water solubility (g/L)	poorly soluble			

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parameter		at °C	Method	remark
Partition coefficient: n-octanol/water	<i>not determined</i>			
Dynamic viscosity	2,900 mPa*s	20 °C	ISO 3219	
Kinematic viscosity	<i>No data available</i>			

### 9.2. Other information

No data available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

No data available

### 10.2. Chemical stability

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

### 10.3. Possibility of hazardous reactions

Danger of polymerisation. Violent reaction with: Alcohols, Amines, Acid, alkali

### 10.4. Conditions to avoid

No data available

### 10.5. Incompatible materials

No data available

### 10.6. Hazardous decomposition products

Gases/vapours, irritant

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

CAS No.	Substance name	Toxicological information
9003-36-5	reaction product: bisphenol-F-(epichlorhydrin)epoxy resin (number average) molecular weight < 700	<b>LD<sub>50</sub> oral:</b> >5,000 mg/kg (Rat) <b>LD<sub>50</sub> dermal:</b> >2,000 mg/kg (Rabbit)
100-51-6	benzyl alcohol	<b>LD<sub>50</sub> oral:</b> 1,230 mg/kg (Rat) <b>LD<sub>50</sub> dermal:</b> 2,000 mg/kg (Rabbit)

#### Skin corrosion/irritation:

Causes skin irritation.

#### Eye damage/irritation:

Irritating to eyes.

#### Respiratory or skin sensitisation:

May cause sensitisation by skin contact.

#### Additional information:

The classification was carried out according to the calculation method of the Preparations Directive (1999/45/EC). Irritant.

## SECTION 12: Ecological information

### 12.1. Toxicity

CAS No.	Substance name	Toxicological information
9003-36-5	reaction product: bisphenol-F-(epichlorhydrin)epoxy resin (number average) molecular weight < 700	<b>EC<sub>50</sub>:</b> 2.54 mg/l 4 d (Leuciscus idus (golden orfe)) <b>LC<sub>50</sub>:</b> 2.55 mg/l 2 d
100-51-6	benzyl alcohol	<b>LC<sub>50</sub>:</b> 460 mg/l 4 d (Pimephales promelas (fathead minnow))

#### Aquatic toxicity:

Toxic to fish.

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### Assessment/classification:

Toxic to aquatic life.

### Additional ecotoxicological information:

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

### 12.2. Persistence and degradability

No data available

### 12.3. Bioaccumulative potential

CAS No.	Substance name	Log K <sub>OC</sub>	Bioconcentration factor (BCF)
100-51-6	benzyl alcohol	1.05	

### 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
9003-36-5	reaction product: bisphenol-F-(epichlorhydrin)epoxy resin (number average) molecular weight < 700	—
100-51-6	benzyl alcohol	—

not applicable

### 12.6. Other adverse effects

No data available

## 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 04 09 *	Waste adhesives and sealants containing organic solvents or other dangerous substances
------------	--

\*: Evidence for disposal must be provided.

### Waste treatment options

#### Appropriate disposal / Package:

Dispose of waste according to applicable legislation.

### 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>			
3082	3082	3082	3082
<b>14.2. UN proper shipping name</b>			
ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (reaction product: bisphenol-F-(epichlorhydrin)epoxy resin (number average) molecular weight < 700)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (reaction product: bisphenol-F-(epichlorhydrin)epoxy resin (number average) molecular weight < 700)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (reaction product: bisphenol-F-(epichlorhydrin)epoxy resin (number average) molecular weight < 700)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (reaction product: bisphenol-F-(epichlorhydrin)epoxy resin (number average) molecular weight < 700)

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Land transport (ADR/RID)	Inland waterway craft (ADN)	Sea transport (IMDG)	Air transport (ICAO-TI / IATA-DGR)
<b>14.3. Transport hazard class(es)</b>			
 9	 9	 9	 9
<b>14.4. Packing group</b>			
III	III	III	III
<b>14.5. Environmental hazards</b>			
		 MARINE POLLUTANT	
<b>14.6. Special precautions for user</b>			
<b>Special provisions:</b> transport category 3 <b>Limited quantity (LQ):</b> 5 L <b>Hazard identification number (Kemler No.):</b> 90 <b>Classification code:</b> - <b>tunnel restriction code:</b> E <b>remark:</b>	<b>Special provisions:</b> <b>Limited quantity (LQ):</b> <b>Classification code:</b> - <b>remark:</b>	<b>Special provisions:</b> <b>Limited quantity (LQ):</b> <b>EmS-No.:</b> F-A; ; S-F <b>remark:</b>	<b>Special provisions:</b> <b>Limited quantity (LQ):</b> <b>remark:</b>

**14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**  
not applicable

## 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

#### Restrictions of occupation

5 MuSchRiV. 22 JArbSchG. 4 MuSchRiV.

#### Water hazard class (WGK)

##### WGK:

2 - deutlich wassergefährdend

#### Berufsgenossenschaftliche Vorschriften (BGV)

Berufsgenossenschaftliche Regeln (BGR) 227

### 15.2. Chemical Safety Assessment

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

### 15.3. Additional information

No data available

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### SECTION 16: Other information

#### 16.1. Indication of changes

- 1.1. Product identifier
- 1.2. Relevant identified uses of the substance or mixture and uses advised against
- 1.3. Details of the supplier of the safety data sheet
- 1.4. Emergency telephone number
- 10.1. Reactivity
- 10.2. Chemical stability
- 10.3. Possibility of hazardous reactions
- 10.4. Conditions to avoid
- 10.5. Incompatible materials
- 10.6. Hazardous decomposition products
- 10.7. Additional information
- 11.1. Information on toxicological effects
- 12.1. Toxicity
- 12.2. Persistence and degradability
- 12.3. Bioaccumulative potential
- 12.4. Mobility in soil
- 12.5. Results of PBT and vPvB assessment
- 12.6. Other adverse effects
- 13.1. Waste treatment methods
- 14.5. Environmental hazards
- 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture
- 15.2. Chemical Safety Assessment
- 16.1. Indication of changes
- 16.2. Abbreviations and acronyms
- 16.3. Key literature references and sources for data
- 16.4. Classification for mixtures and used evaluation method according to regulation (EC) 1272/2008 [CLP]
- 16.5. Relevant R-, H- and EUH-phrases (Number and full text)
- 16.6. Training advice
- 16.7. Additional information
- 2.1. Classification of the substance or mixture
- 2.2. Label elements
- 2.3. Other hazards
- 3.1. Substances
- 3.2. Mixtures
- 4.1. Description of first aid measures
- 4.2. Most important symptoms and effects, both acute and delayed
- 4.3. Indication of any immediate medical attention and special treatment needed
- 5.1. Extinguishing media
- 5.2. Special hazards arising from the substance or mixture
- 5.3. Advice for firefighters
- 6.1. Personal precautions, protective equipment and emergency procedures
- 6.2. Environmental precautions
- 6.3. Methods and material for containment and cleaning up
- 6.4. Reference to other sections
- 7.1. Precautions for safe handling
- 7.2. Conditions for safe storage, including any incompatibilities
- 7.3. Specific end use(s)
- 8.1. Control parameters
- 8.2. Exposure controls
- 9.1. Information on basic physical and chemical properties
- 9.2. Other information

#### 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) 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.

### 16.6. Training advice

No data available

### 16.7. Additional information

No data available

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## EURODUR EP 0211 Komponente B

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

#### 1.1. Product identifier

Trade name/designation:

**EURODUR EP 0211 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: Private households (= general public = consumers)

#### 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
flammable liquids ( <i>Flam. Liq. 3</i> )	H226: Flammable liquid and vapour.	
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.	
Acute toxicity (inhalative) ( <i>Acute Tox. 4</i> )	H332: Harmful if inhaled.	

#### 2.2. Label elements

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

Hazard pictograms:



**GHS02**  
Flame



**GHS05**  
Corrosion



**GHS07**  
Exclamation mark

**Signal word:** Danger

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### Hazard components for labelling:

1,3-Benzenedimethanamine; benzyl alcohol

#### hazard statements for physical hazards

H226 Flammable liquid and vapour.

#### hazard statements for health hazards

H314 Causes severe skin burns and eye damage.

H317 May cause an allergic skin reaction.

H332 Harmful if inhaled.

#### 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

P302 + P352.1 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.

### 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.: 100-51-6 EC No.: 202-859-9	benzyl alcohol	25 - 50 %
CAS No.: 1477-55-0 EC No.: 216-032-5 REACH No.: 01-2119480150-50-XXXX	1,3-Benzenedimethanamine	10 - < 25 %
CAS No.: 64-17-5 EC No.: 200-578-6	ethanol	3 - < 10 %

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

#### General information:

Remove contaminated, saturated clothing immediately. Symptoms may develop several hours following exposure; medical observation therefore necessary for at least 48 hours.

#### Following inhalation:

Provide fresh air. Call a physician in any case! If unconscious place in recovery position and seek medical advice.

#### 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.

#### After ingestion:

Call a physician immediately. Let water be drunken in little sips (dilution effect). Provide fresh air.

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

No information available.

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

No information available.

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### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

**Suitable extinguishing media:**

Extinguishing powder, Carbon dioxide (CO<sub>2</sub>), Sand. Never use water.

**Unsuitable extinguishing media:**

Full water jet

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

No data available

#### 5.3. Advice for firefighters

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

#### 5.4. Additional information

No data available

### SECTION 6: Accidental release measures

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

##### 6.1.1. For non-emergency personnel

**Personal precautions:**

Use personal protection equipment.

##### 6.1.2. For emergency responders

No data available

#### 6.2. Environmental precautions

In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities. 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).

Disposal: see section 13

**For cleaning up:**

Do not rinse down with water.

**Other information:**

Provide adequate ventilation.

#### 6.4. Reference to other sections

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

#### 6.5. Additional information

No data available

### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

**Protective measures**

**Advices on safe handling:**

Keep container tightly closed. Store in a cool dry place. If local exhaust ventilation is not possible or not sufficient, the entire working area should be ventilated by technical means. Avoid: Generation/formation of aerosols

**Fire prevent measures:**

Keep away from sources of ignition. - No smoking. Take precautionary measures against static discharges.

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

**Requirements for storage rooms and vessels:**

Keep container tightly closed.

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### Hints on storage assembly:

No special measures are necessary.

**Storage class:** 3 - Flammable liquids

### 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

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)	ethanol CAS No.: 64-17-5	① 500 ppm (960 mg/m <sup>3</sup> ) ② 1,000 ppm (1,920 mg/m <sup>3</sup> )

#### 8.1.2. biological limit values

No data available

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

Substance name	PNEC Value	① PNEC type
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

No data available

#### 8.2.2. Personal protection equipment

##### Eye/face protection:

Eye glasses with side protection

##### Skin protection:

Suitable gloves type: NBR (Nitrile rubber), Butyl caoutchouc (butyl rubber). Check leak tightness/ impermeability prior to use. 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. Unsuitable material: Leather articles. Only wear fitting, comfortable and clean protective clothing.

##### Respiratory protection:

Usually no personal respiratory protection necessary. If technical exhaust or ventilation measures are not possible or insufficient, respiratory protection must be worn.

##### Other protection measures:

Keep away from food, drink and animal feedingstuffs. Remove contaminated, saturated clothing. Wash hands before breaks and after work. Avoid contact with eyes.

#### 8.2.3. Environmental exposure controls

No data available

### 8.3. Additional information

No data available

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### 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/freezing point	<i>not determined</i>			
Freezing point	<i>not determined</i>			
Initial boiling point and boiling range	<i>not determined</i>			
Decomposition temperature (°C):	<i>not determined</i>			
Flash point	46 °C			
Evaporation rate	<i>not determined</i>			
Ignition temperature in °C	435 °C			
Upper/lower flammability or explosive limits				In use, may form flammable/explosive vapour-air mixture.
Vapour pressure	<i>not determined</i>			
Vapour density	<i>not determined</i>			
Density	1.06 g/cm <sup>3</sup>	23 °C	ISO 2811, part 2	
Bulk density	<i>not determined</i>			
Water solubility (g/L)	partially miscible			
Partition coefficient: n-octanol/water	<i>not determined</i>			
Dynamic viscosity	1,800 mPa*s	23 °C	ISO 3219	
Kinematic viscosity	220	23 °C		

#### 9.2. Other information

No data available

### SECTION 10: Stability and reactivity

#### 10.1. Reactivity

No data available

#### 10.2. Chemical stability

The product is stable under storage at normal ambient temperatures.

#### 10.3. Possibility of hazardous reactions

Danger of polymerisation. Violent reaction with: Acid, Alkali (lye), Oxidising agent.

#### 10.4. Conditions to avoid

No data available

#### 10.5. Incompatible materials

No data available

#### 10.6. Hazardous decomposition products

Gases/vapours, irritant

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### SECTION 11: Toxicological information

#### 11.1. Information on toxicological effects

CAS No.	Substance name	Toxicological information
100-51-6	benzyl alcohol	<b>LD<sub>50</sub> oral:</b> 1,230 mg/kg (Rat) <b>LD<sub>50</sub> dermal:</b> 2,000 mg/kg (Rabbit)
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)

#### Skin corrosion/irritation:

Causes severe skin burns and eye damage.

#### Eye damage/irritation:

Causes burns.

#### Respiratory or skin sensitisation:

May cause sensitisation by skin contact.

#### Additional information:

The product is: Harmful, Corrosive, Irritant. If swallowed danger of perforation of the esophagus and the stomach (strong corrosive effects).

### SECTION 12: Ecological information

#### 12.1. Toxicity

CAS No.	Substance name	Toxicological information
100-51-6	benzyl alcohol	<b>LC<sub>50</sub>:</b> 460 mg/l 4 d (Pimephales promelas (fathead 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 (Brachydanio rerio (zebrafish)) <b>LC<sub>50</sub>:</b> 75 mg/l 4 d (Leuciscus idus (golden orfe)) <b>EC<sub>50</sub>:</b> 12 mg/l 3 d (Scenedesmus subspicatus) OECD 201 <b>NOEC:</b> 4.7 mg/l 21 d (Daphnia magna (Big water flea))

#### Aquatic toxicity:

Harmful to fish.

#### 12.2. Persistence and degradability

CAS No.	Substance name	Biodegradation	remark
1477-55-0	1,3-Benzenedimethanamine	No	Biodegradation: 22 %, Test duration: 28 d, Method: OECD 302C, Biodegradation: 49 %, Test duration: 28 d, Method: OECD 301B/ ISO 9439/ EEC 92/69/V, C.4-C

#### 12.3. Bioaccumulative potential

CAS No.	Substance name	Log K <sub>OC</sub>	Bioconcentration factor (BCF)
100-51-6	benzyl alcohol	1.05	
1477-55-0	1,3-Benzenedimethanamine	0.18	3 species: Cyprinus carpio (Common Carp)

#### 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
100-51-6	benzyl alcohol	—
1477-55-0	1,3-Benzenedimethanamine	—

not applicable

### 12.6. Other adverse effects

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

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Do not empty into drains, dispose of this material and its container at hazardous or special waste collection point.

#### 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 / Package:

Dispose according to legislation.

### 13.2. Additional information

No data available

## 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>			
2924	2924	2924	2924
<b>14.2. UN proper shipping name</b>			
FLAMMABLE LIQUID, CORROSIVE, N.O.S. (Ethanol, 1,3-Benzenedimethanamine)	FLAMMABLE LIQUID, CORROSIVE, N.O.S. (Ethanol, 1,3-Benzenedimethanamine)	FLAMMABLE LIQUID, CORROSIVE, N.O.S. (Ethanol, 1,3-Benzenedimethanamine)	FLAMMABLE LIQUID, CORROSIVE, N.O.S. (Ethanol, 1,3-Benzenedimethanamine)
<b>14.3. Transport hazard class(es)</b>			
 3 8	 3 8	 3 8	 3 8
<b>14.4. Packing group</b>			
III	III	III	III
<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: Limited quantity (LQ):</b> 5 L <b>Hazard identification number (Kemler No.):</b> 38 <b>Classification code: - tunnel restriction code: D/E remark:</b>	<b>Special provisions: Limited quantity (LQ):</b> <b>Classification code: - remark:</b>	<b>Special provisions: Limited quantity (LQ):</b> <b>EmS-No.: F-E, ; S-C remark:</b>	<b>Special provisions: Limited quantity (LQ):</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

#### Betriebssicherheitsverordnung (BetrSichV)

entzündlich

#### Water hazard class (WGK)

##### WGK:

1 - schwach wassergefährdend

### 15.2. Chemical Safety Assessment

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

### 15.3. Additional information

No data available

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### SECTION 16: Other information

#### 16.1. Indication of changes

- 1.1. Product identifier
- 1.2. Relevant identified uses of the substance or mixture and uses advised against
- 1.3. Details of the supplier of the safety data sheet
- 1.4. Emergency telephone number
- 10.1. Reactivity
- 10.2. Chemical stability
- 10.3. Possibility of hazardous reactions
- 10.4. Conditions to avoid
- 10.5. Incompatible materials
- 10.6. Hazardous decomposition products
- 10.7. Additional information
- 11.1. Information on toxicological effects
- 12.1. Toxicity
- 12.2. Persistence and degradability
- 12.3. Bioaccumulative potential
- 12.4. Mobility in soil
- 12.5. Results of PBT and vPvB assessment
- 12.6. Other adverse effects
- 13.1. Waste treatment methods
- 14.5. Environmental hazards
- 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture
- 15.2. Chemical Safety Assessment
- 16.1. Indication of changes
- 16.2. Abbreviations and acronyms
- 16.3. Key literature references and sources for data
- 16.4. Classification for mixtures and used evaluation method according to regulation (EC) 1272/2008 [CLP]
- 16.5. Relevant R-, H- and EUH-phrases (Number and full text)
- 16.6. Training advice
- 16.7. Additional information
- 2.1. Classification of the substance or mixture
- 2.2. Label elements
- 2.3. Other hazards
- 3.1. Substances
- 3.2. Mixtures
- 4.1. Description of first aid measures
- 4.2. Most important symptoms and effects, both acute and delayed
- 4.3. Indication of any immediate medical attention and special treatment needed
- 5.1. Extinguishing media
- 5.2. Special hazards arising from the substance or mixture
- 5.3. Advice for firefighters
- 6.1. Personal precautions, protective equipment and emergency procedures
- 6.2. Environmental precautions
- 6.3. Methods and material for containment and cleaning up
- 6.4. Reference to other sections
- 7.1. Precautions for safe handling
- 7.2. Conditions for safe storage, including any incompatibilities
- 7.3. Specific end use(s)
- 8.1. Control parameters
- 8.2. Exposure controls
- 9.1. Information on basic physical and chemical properties
- 9.2. Other information

#### 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) 1272/2008 [CLP]

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

Hazard classes and hazard categories	Hazard statements	Classification procedure
flammable liquids ( <i>Flam. Liq. 3</i> )	H226: Flammable liquid and vapour.	
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.	
Acute toxicity (inhalative) ( <i>Acute Tox. 4</i> )	H332: Harmful if inhaled.	

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

No data available

### 16.6. Training advice

No data available

### 16.7. Additional information

No data available