

# SAFETY DATA SHEET

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

Revision date: 22-Jul-2015

Print date: 22-Jul-2015

Version: 2.0

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**EUROTEAM**  
construction chemicals



## EURODUR EPV 0411 groundfix AS Komponente B

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

#### 1.1. Product identifier

Trade name/designation:

EURODUR EPV 0411 groundfix AS 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
Acute toxicity (oral) ( <i>Acute Tox. 4</i> )	H302: Harmful if swallowed.	
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 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:



**GHS05**  
Corrosion



**GHS09**  
Environment



**GHS07**  
Exclamation mark

Signal word: Danger

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### Hazard components for labelling:

(Z)-octadec-9-enylamine; 2-piperazin-1-ylethylamine; trimethylhexane-1,6-diamine; Amines, coco alkyl

#### hazard statements for health hazards

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

#### 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.
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.: 61788-44-1 EC No.: 262-975-0 REACH No.: 01-2119980970-27-XXXX	<b>Phenol, styrenated</b> Skin Irrit. 2, Skin Sens. 1, Aquatic Chronic 2 H315-H317-H411	25 - 30 %
CAS No.: 112-90-3 EC No.: 204-015-5	<b>(Z)-octadec-9-enylamine</b> Skin Corr. 1A, STOT SE 3, Acute Tox. 4, STOT RE 2, Aquatic Chronic 1 H302-H314-H335-H373-H410	10 - 15 %
CAS No.: 140-31-8 EC No.: 205-411-0 REACH No.: 01-2119471486-30-XXXX	<b>2-piperazin-1-ylethylamine</b> Skin Corr. 1B, Acute Tox. 4, Skin Sens. 1, Aquatic Chronic 3  <b>Danger</b> H302-H312-H314-H317-H412	5 - 10 %
CAS No.: 25620-58-0 EC No.: 247-134-8	<b>trimethylhexane-1,6-diamine</b> Skin Corr. 1B, Acute Tox. 4, Skin Sens. 1 H302-H314-H317	5 - 10 %
CAS No.: 61788-46-3 EC No.: 262-977-1	<b>Amines, coco alkyl</b> Skin Corr. 1A, STOT SE 3, Acute Tox. 4, STOT RE 2, Asp. Tox. 1, Aquatic Acute 1, Aquatic Chronic 1 H302-H304-H314-H335-H373-H400-H410	5 - 10 %
CAS No.: 100-51-6 EC No.: 202-859-9	<b>benzyl alcohol</b> Acute Tox. 4  <b>Warning</b> H302-H332	1 - 5 %
CAS No.: 90-72-2 EC No.: 202-013-9	<b>2,4,6-tris(dimethylaminomethyl)phenol</b> Acute Tox. 4, Skin Irrit. 2, Eye Irrit. 2  <b>Warning</b> H302-H315-H319	1 - 5 %
CAS No.: 108-10-1 EC No.: 203-550-1	<b>4-methylpentan-2-one</b> STOT SE 3, Flam. Liq. 2, Acute Tox. 4, Eye Irrit. 2  <b>Danger</b> H225-H319-H332-H335-EUH066	1 - 5 %

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:**

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.

**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

**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.

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### 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

### 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: 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

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)	4-methylpentan-2-one CAS No.: 108-10-1	① 20 ppm (83 mg/m <sup>3</sup> ) ② 40 ppm (166 mg/m <sup>3</sup> )
IOELV (EU)	4-methylpentan-2-one CAS No.: 108-10-1	① 20 ppm (83 mg/m <sup>3</sup> ) ② 50 ppm (208 mg/m <sup>3</sup> )

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### 8.1.2. biological limit values

Limit value type (country of origin)	Substance name	Limit value	① parameter ② Test material ③ Sample time ④ remark
BAT (DE)	4-methylpentan-2-one CAS No.: 108-10-1	0.7 mg/L	① 4-Methylpentan-2-on ② Urin ③ Expositionsende bzw. Schichtende
TRGS 903 (DE)	4-methylpentan-2-one CAS No.: 108-10-1	3.5 mg/L	① 4-Methylpentan-2-on ② Urin ③ Expositionsende bzw. Schichtende

### 8.1.3. DNEL-/PNEC-values

No data available

### 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. Wear suitable protective clothing. Wash hands before breaks and after work.

#### 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: 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>			

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parameter		at °C	Method	remark
Initial boiling point and boiling range	> 200 °C			
Decomposition temperature (°C):	<i>not determined</i>			
Flash point	> 100 °C			
Evaporation rate	<i>not determined</i>			
Ignition temperature in °C	<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	≈ 1 g/cm <sup>3</sup>	23 °C		
Bulk density	<i>not determined</i>			
Water solubility (g/L)	<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	> 200 s	23 °C		

### 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: acid-resistant, alkaline, 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
112-90-3	(Z)-octadec-9-enylamine	<b>LD<sub>50</sub> oral:</b> 200 – 2,000 mg/kg (Rat)
61788-46-3	Amines, coco alkyl	<b>LD<sub>50</sub> oral:</b> 1,300 mg/kg (Rat)

### Skin corrosion/irritation:

Corrosive

### 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
112-90-3	(Z)-octadec-9-enylamine	EC <sub>50</sub> : 0.1 - 1 mg/l 2 d EC <sub>50</sub> : 0.1 - 1 mg/l 3 d LC <sub>50</sub> : 0.11 mg/l 4 d
61788-46-3	Amines, coco alkyl	EC <sub>50</sub> : 0.045 mg/l 2 d

#### Aquatic toxicity:

No information available.

#### Additional ecotoxicological information:

No information available.

#### 12.2. Persistence and degradability

##### Additional information:

No information available.

#### 12.3. Bioaccumulative potential

##### 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
112-90-3	(Z)-octadec-9-enylamine	—
61788-46-3	Amines, coco alkyl	—

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.

#### 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>			
2735		2735	2735

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Land transport (ADR/RID)	Inland waterway craft (ADN)	Sea transport (IMDG)	Air transport (ICAO-TI / IATA-DGR)
<b>14.2. UN proper shipping name</b>			
POLYAMINES, LIQUID, CORROSIVE, N.O.S. (2-piperazin-1-ylethylamine, (Z)-octadec-9-enylamine)		POLYAMINES, LIQUID, CORROSIVE, N.O.S. (2-piperazin-1-ylethylamine, (Z)-octadec-9-enylamine)	POLYAMINES, LIQUID, CORROSIVE, N.O.S. (2-piperazin-1-ylethylamine, (Z)-octadec-9-enylamine)
<b>14.3. Transport hazard class(es)</b>			
 8		 8	 8
<b>14.4. Packing group</b>			
II		II	II
<b>14.5. Environmental hazards</b>			
No	-	No	No
<b>14.6. Special precautions for user</b>			
<b>Special provisions:</b> E 2 <b>Limited quantity (LQ):</b> Limited quantity (LQ) 22 <b>Hazard identification number (Kemler No.):</b> 80 <b>Classification code:</b> C7 <b>remark:</b>	<b>Special provisions:</b> <b>Limited quantity (LQ):</b> <b>Classification code:</b> - <b>remark:</b>	<b>Special provisions:</b> E 2 <b>Limited quantity (LQ):</b> Limited quantity (LQ) 1 L <b>EmS-No.:</b> F-A, ; S-B <b>remark:</b>	<b>Special provisions:</b> E 2 <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**  
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.

### 15.3. Additional information

No data available



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## EURODUR EPV 0411 groundfix AS Komponente B

### 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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## EURODUR EPV 0411 groundfix AS Komponente B

### 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
Acute toxicity (oral) ( <i>Acute Tox. 4</i> )	H302: Harmful if swallowed.	
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 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	
H225	Highly flammable liquid and vapour.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H312	Harmful in contact with skin.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H373	May cause damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
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

No data available

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## EURODUR EPV 0411 groundfix AS 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 AS 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 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:

methyl toluene-4-sulphonate; reaction product: bisphenol-A-(epichlorhydrin)epoxy resin (number average) molecular weight  $\leq 700$ ; reaction product: bisphenol-F-(epichlorhydrin)epoxy resin (number average) molecular weight  $\leq 700$ ; 1,6 Hexandioldiglycidylether

#### 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 (EU)

EUH205 Contains epoxy constituents. May produce an allergic reaction.

#### Precautionary statements Prevention

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

P264.1 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
CAS No.: 25068-38-6 EC No.: 500-033-5	<b>reaction product: bisphenol-A-(epichlorhydrin)epoxy resin (number average) molecular weight <math>\leq 700</math></b> Skin Irrit. 2, Eye Irrit. 2, Skin Sens. 1, Aquatic Chronic 2   <b>Warning</b> H315-H317-H319-H411	15 - 20 %
CAS No.: 28064-14-4	<b>reaction product: bisphenol-F-(epichlorhydrin)epoxy resin (number average) molecular weight <math>\leq 700</math></b> Skin Irrit. 2, Eye Irrit. 2, Skin Sens. 1, Aquatic Chronic 2 H315-H317-H319-H411	2.5 - 5 %
CAS No.: 16096-31-4 EC No.: 240-260-4	<b>1,6 Hexandioldiglycidylether</b> Skin Irrit. 2, Eye Irrit. 2, Skin Sens. 1, Aquatic Chronic 3  H315-H317-H319-H412	1 - 5 %
CAS No.: 26142-30-3	<b>Polyoxypropylendiglycidylether</b> Skin Irrit. 2, Eye Irrit. 2, Skin Sens. 1 H315-H317-H319	1 - 5 %
CAS No.: 80-48-8 EC No.: 201-283-5	<b>methyl toluene-4-sulphonate</b> STOT SE 3, Acute Tox. 4, Skin Irrit. 2, Eye Irrit. 2, Skin Sens. 1 H302-H315-H317-H319-H335	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

#### 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>), Gases, 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. 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

### 6.5. Additional information

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

#### 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

No data available

#### 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

#### 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:** solid

**Colour:** grey

**Odour:** characteristic

##### 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	> 200 °C			
Decomposition temperature (°C):	<i>not determined</i>			
Flash point	> 100 °C			
Evaporation rate	<i>not determined</i>			
Ignition temperature in °C	<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	2.4 g/cm <sup>3</sup>	23 °C		
Bulk density	<i>not determined</i>			
Water solubility (g/L)	<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: acid-resistant, alkaline, 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

##### Skin corrosion/irritation:

Irritating to skin.

##### Eye damage/irritation:

Irritating to eyes.

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### 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

#### 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

#### Accumulation / Evaluation:

No information available.

### 12.4. Mobility in soil

No information available.

### 12.5. Results of PBT and vPvB assessment

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.

#### 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
----------	--

### 13.2. Additional information

No data available

## SECTION 14: Transport information

No dangerous good in sense of these transport regulations.

### 14.1. UN-No.

not relevant

### 14.2. UN proper shipping name

not relevant

### 14.3. Transport hazard class(es)

not relevant

### 14.4. Packing group

not relevant

### 14.5. Environmental hazards

not relevant



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### 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:

3 - stark 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.

#### 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 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.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
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

No data available