

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

Printing date 03.06.2019

Version number 3

Revision: 03.06.2019

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

- **1.1 Product identifier**
- **Trade name** EPOXY TOPCOAT EP 100 TC KOMP B
- **Article number:** 10512/3
- **1.2 Relevant identified uses of the substance or mixture and uses advised against**  
No further relevant information available.
- **Application of the substance / the mixture** Hardening agent/ Curing agent
- **1.3 Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**  
MUREXIN GmbH  
Franz v. Furtenbachstr. 1  
A-2700 Wiener Neustadt  
Tel.: +43 (0)2622/27401
- **Informing department:** r.wachlhofer@murexin.com
- **1.4 Emergency telephone number:**  
UK National poisons Emergency number.: +44 (0) 870 600 6266

**SECTION 2: Hazards identification**

- **2.1 Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008**



GHS05 corrosion

Skin Corr. 1B    H314 Causes severe skin burns and eye damage.  
Eye Dam. 1      H318 Causes serious eye damage.



GHS09 environment

Aquatic Acute 1 H400 Very toxic to aquatic life.



GHS07

Acute Tox. 4    H302 Harmful if swallowed.  
Skin Sens. 1    H317 May cause an allergic skin reaction.

- **2.2 Label elements**
- **Labelling according to Regulation (EC) No 1272/2008**  
The product is classified and labelled according to the CLP regulation.
- **Hazard pictograms**



GHS05 GHS07 GHS09

- **Signal word** Danger
- **Hazard-determining components of labelling:**  
Benzyl alcohol  
3-aminomethyl-3,5,5-trimethylcyclohexylamine  
Amines, coco alkyl
- **Hazard statements**  
H302 Harmful if swallowed.  
H314 Causes severe skin burns and eye damage.

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H317 May cause an allergic skin reaction.

H400 Very toxic to aquatic life.

#### Precautionary statements

P260 Do not breathe dusts or mists.

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

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310 Immediately call a POISON CENTER/doctor.

P405 Store locked up.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

#### 2.3 Other hazards

#### Results of PBT and vPvB assessment

- PBT: Not applicable.

- vPvB: Not applicable.

### SECTION 3: Composition/information on ingredients

#### 3.2 Chemical characterisation: Mixtures

- Description: Mixture consisting of the following components with harmless additives.

#### Dangerous components:

|   |  |        |
|---|--|--------|
| CAS: 100-51-6<br>EINECS: 202-859-9<br>Reg.nr.: 01-2119492630-38-xxxxx | Benzyl alcohol<br>⚠ Acute Tox. 4, H302; Acute Tox. 4, H312; Acute Tox. 4, H332; Eye Irrit. 2, H319   | 25-50% |
| CAS: 2855-13-2<br>EINECS: 220-666-8                                   | 3-aminomethyl-3,5,5-trimethylcyclohexylamine<br>⚠ Skin Corr. 1B, H314<br>⚠ Acute Tox. 4, H302; Acute Tox. 4, H312; Skin Sens. 1, H317<br>Aquatic Chronic 3, H412                 | 25-50% |
| CAS: 10563-29-8<br>EINECS: 234-148-4                                  | N'-(3-aminopropyl)-N,N-dimethylpropane-1,3-diamine<br>⚠ Acute Tox. 4, H312   | 5-10%  |
| CAS: 61788-46-3<br>EINECS: 262-977-1                                  | Amines, coco alkyl<br>⚠ STOT RE 2, H373; Asp. Tox. 1, H304<br>⚠ Skin Corr. 1B, H314<br>⚠ Aquatic Acute 1, H400; Aquatic Chronic 1, H410<br>⚠ Acute Tox. 4, H302; STOT SE 3, H335 | 5-10%  |

### SECTION 4: First aid measures

#### 4.1 Description of first aid measures

- General information Instantly remove any clothing soiled by the product.

#### After inhalation

Take affected persons into the open air and position comfortably

Seek medical treatment in case of complaints.

In case of unconsciousness bring patient into stable side position for transport.

#### After skin contact

If skin irritation continues, consult a doctor.

Instantly wash with water and soap and rinse thoroughly.

- After eye contact Rinse opened eye for several minutes under running water. Then consult doctor.

- After swallowing Drink copious amounts of water and provide fresh air. Instantly call for doctor.

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

No further relevant information available.

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- **4.3 Indication of any immediate medical attention and special treatment needed**  
No further relevant information available.

### SECTION 5: Firefighting measures

- **5.1 Extinguishing media**
- **Suitable extinguishing agents**  
Use fire fighting measures that suit the environment.  
CO<sub>2</sub>, extinguishing powder or water jet. Fight larger fires with water jet or alcohol-resistant foam.
- **For safety reasons unsuitable extinguishing agents** Water with a full water jet.
- **5.2 Special hazards arising from the substance or mixture**  
Formation of poisonous gases during heating or in fires.
- **5.3 Advice for firefighters**
- **Protective equipment:** Put on breathing apparatus.
- **Additional information**  
Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

### SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures**  
Put on breathing apparatus.  
Wear protective clothing.
- **6.2 Environmental precautions:**  
Do not allow to enter the ground/soil.  
Do not allow product to reach sewage system or water bodies.
- **6.3 Methods and material for containment and cleaning up:**  
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).  
Use neutralising agent.  
Dispose of contaminated material as waste according to item 13.  
Ensure adequate ventilation.
- **6.4 Reference to other sections**  
See Section 7 for information on safe handling  
See Section 8 for information on personal protection equipment.  
See Section 13 for information on disposal.

### SECTION 7: Handling and storage

- **7.1 Precautions for safe handling**  
Keep containers tightly sealed.  
Ensure good ventilation/exhaustion at the workplace.  
Prevent formation of aerosols.
- **Information about protection against explosions and fires:** Keep breathing equipment ready.
- **7.2 Conditions for safe storage, including any incompatibilities**
- **Storage**
- **Requirements to be met by storerooms and containers:**  
Provide floor trough without outlet.  
Store only in the original container.
- **Information about storage in one common storage facility:** Store away from foodstuffs.
- **Further information about storage conditions:** Keep container tightly sealed.
- **Storage class** 8 A
- **7.3 Specific end use(s)** No further relevant information available.

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### SECTION 8: Exposure controls/personal protection

- **Additional information about design of technical systems:** No further data; see item 7.
- **8.1 Control parameters**
- **Components with critical values that require monitoring at the workplace:**  
The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
- **Additional information:** The lists that were valid during the compilation were used as basis.
- **8.2 Exposure controls**
- **Personal protective equipment**
- **General protective and hygienic measures**  
The usual precautionary measures should be adhered to in handling the chemicals.  
Keep away from foodstuffs, beverages and food.  
Instantly remove any soiled and impregnated garments.  
Wash hands during breaks and at the end of the work.  
Avoid contact with the eyes and skin.
- **Breathing equipment:**  
In case of brief exposure or low pollution use breathing filter apparatus. In case of intensive or longer exposure use breathing apparatus that is independent of circulating air.  
Filter A/P2.
- **Protection of hands:**  
Plastic gloves  
Protective gloves.
- **Material of gloves**  
Nitrile rubber, NBR  
Fluorocarbon rubber (Viton)  
The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.
- **Penetration time of glove material**  
The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
- **Eye protection:** Tightly sealed safety glasses.
- **Body protection:** Protective work clothing.

### SECTION 9: Physical and chemical properties

- **9.1 Information on basic physical and chemical properties**
- **General Information**
- **Appearance:**

|                         |                 |
|-------------------------|-----------------|
| <b>Form:</b>            | Liquid          |
| <b>Colour:</b>          | Light yellow    |
| <b>Smell:</b>           | Amine-like      |
| <b>Odour threshold:</b> | Not determined. |
- **pH-value:** Not determined.
- **Change in condition**

|   |                |
|---|----------------|
| <b>Melting point/freezing point:</b>            | Not determined |
| <b>Initial boiling point and boiling range:</b> | 205 °C         |
- **Flash point:** >100 °C
- **Inflammability (solid, gaseous)** Not applicable.
- **Ignition temperature:** 250 °C
- **Decomposition temperature:** Not determined.

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|  |  |
|--|--|
| · <b>Self-inflammability:</b>                    | Product is not selfigniting.               |
| · <b>Explosive properties:</b>                   | Product is not explosive.                  |
| · <b>Critical values for explosion:</b>          |  |
| <b>Lower:</b>                                    | 1.2 Vol %                                  |
| <b>Upper:</b>                                    | 13 Vol %                                   |
| · <b>Steam pressure at 20 °C:</b>                | 0.1 hPa                                    |
| · <b>Density at 20 °C</b>                        | 1 g/cm <sup>3</sup>                        |
| · <b>Relative density</b>                        | Not determined.                            |
| · <b>Vapour density</b>                          | Not determined.                            |
| · <b>Evaporation rate</b>                        | Not determined.                            |
| · <b>Solubility in / Miscibility with Water:</b> | Not miscible or difficult to mix           |
| · <b>Partition coefficient: n-octanol/water:</b> | Not determined.                            |
| · <b>Viscosity:</b>                              |  |
| <b>dynamic at 20 °C:</b>                         | 500 mPas                                   |
| <b>kinematic:</b>                                | Not determined.                            |
| · <b>Solvent content:</b>                        |  |
| <b>Solids content:</b>                           | 0.0 %                                      |
| · <b>9.2 Other information</b>                   | No further relevant information available. |

### SECTION 10: Stability and reactivity

- **10.1 Reactivity** No further relevant information available.
- **10.2 Chemical stability**
- **Conditions to be avoided:** No decomposition if used according to specifications.
- **10.3 Possibility of hazardous reactions** No dangerous reactions known
- **10.4 Conditions to avoid** No further relevant information available.
- **10.5 Incompatible materials:** No further relevant information available.
- **10.6 Hazardous decomposition products:**  
Corrosive gases/vapours  
Poisonous gases/vapours

### SECTION 11: Toxicological information

- **11.1 Information on toxicological effects**
  - **Acute toxicity**  
Harmful if swallowed.
  - **LD/LC50 values that are relevant for classification:**
- |                                |      |                   |
|--------------------------------|------|-------------------|
| <b>100-51-6 Benzyl alcohol</b> |      |                   |
| Oral                           | LD50 | 1,230 mg/kg (rat) |
| Dermal                         | LD50 | 2,000 mg/kg (rbt) |
- **Primary irritant effect:**
  - **Skin corrosion/irritation**  
Causes severe skin burns and eye damage.
  - **Serious eye damage/irritation**  
Causes serious eye damage.
  - **CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)**
  - **Germ cell mutagenicity** Based on available data, the classification criteria are not met.
  - **Carcinogenicity** Based on available data, the classification criteria are not met.

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- **Reproductive toxicity** Based on available data, the classification criteria are not met.
- **STOT-single exposure** Based on available data, the classification criteria are not met.
- **STOT-repeated exposure** Based on available data, the classification criteria are not met.
- **Aspiration hazard** Based on available data, the classification criteria are not met.

## SECTION 12: Ecological information

### 12.1 Toxicity

#### Aquatic toxicity:

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

|       |  |
|-------|--|
| EC 50 | 37 mg/l ( <i>Pseudokirchneriella subcapitata</i> (Alge)) (DIN 38412 (72h)) |
|       | 42 mg/l ( <i>Daphnia magna</i> (Großer Wasserfloh)) (DIN 38412 24h)        |

- **12.2 Persistence and degradability** No further relevant information available.
- **12.3 Bioaccumulative potential** No further relevant information available.
- **12.4 Mobility in soil** No further relevant information available.
- **Ecotoxicological effects:**
- **Remark:** Very toxic for fish
- **Additional ecological information:**
- **General notes:**  
Must not reach sewage water or drainage ditch undiluted or unneutralised.  
Very toxic for aquatic organisms  
Water danger class (Germany) 3 (Self-assessment): extremely hazardous for water.  
Do not allow product to reach ground water, water bodies or sewage system, even in small quantities.  
Danger to drinking water if even extremely small quantities leak into soil.
- **12.5 Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **12.6 Other adverse effects** No further relevant information available.

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

#### Recommendation

After prior treatment product has to be landfilled or incinerated under adherence to the regulations pertaining to the disposal of especially hazardous waste.

Can be deposited with household garbage after solidification following consultation with the operator of the waste disposal facility and the pertinent authorities and under adherence to the necessary technical regulations.

#### Uncleaned packagings:

- **Recommendation:** Disposal must be made according to official regulations.

## SECTION 14: Transport information

### 14.1 UN-Number

#### ADR, IMDG, IATA

UN2735

### 14.2 UN proper shipping name

#### ADR

2735 AMINES, LIQUID, CORROSIVE, N.O.S.  
(Amines, coco alkyl), ENVIRONMENTALLY  
HAZARDOUS

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|   |  |
|---|--|
| · <b>IMDG</b>   | AMINES, LIQUID, CORROSIVE, N.O.S. (Amines, coco alkyl), MARINE POLLUTANT                         |
| · <b>IATA</b>   | AMINES, LIQUID, CORROSIVE, N.O.S. (Amines, coco alkyl)   |
| · <b>14.3 Transport hazard class(es)</b>  |  |
| · <b>ADR, IMDG</b>  |  |
|   |  |
| · <b>Class</b>  | 8 Corrosive substances.  |
| · <b>Label</b>  | 8  |
| · <b>IATA</b>   |  |
|    |  |
| · <b>Class</b>  | 8 Corrosive substances.  |
| · <b>Label</b>  | 8  |
| · <b>14.4 Packing group</b>   |  |
| · <b>ADR, IMDG, IATA</b>  | II   |
| · <b>14.5 Environmental hazards:</b>  | Product contains environmentally hazardous substances: Amines, coco alkyl                        |
| · <b>Marine pollutant:</b>  | Symbol (fish and tree)   |
| · <b>Special marking (ADR):</b>   | Symbol (fish and tree)   |
| · <b>14.6 Special precautions for user</b>  | Warning: Corrosive substances.   |
| · <b>Kemler Number:</b>   | 80   |
| · <b>EMS Number:</b>  | F-A, S-B   |
| · <b>Segregation groups</b>   | Alkalis  |
| · <b>Stowage Category</b>   | A  |
| · <b>Segregation Code</b>   | SG35 Stow "separated from" SGG1-acids  |
| · <b>14.7 Transport in bulk according to Annex II of Marpol and the IBC Code</b>  | Not applicable.  |
| · <b>Transport/Additional information:</b>  |  |
| · <b>ADR</b>  |  |
| · <b>Limited quantities (LQ)</b>  | 1L   |
| · <b>Transport category</b>   | 2  |
| · <b>Tunnel restriction code</b>  | E  |
| · <b>UN "Model Regulation":</b>   | UN 2735 AMINES, LIQUID, CORROSIVE, N.O.S. (AMINES, COCO ALKYL), 8, II, ENVIRONMENTALLY HAZARDOUS |

### SECTION 15: Regulatory information

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **Directive 2012/18/EU**
- **Named dangerous substances - ANNEX I** None of the ingredients is listed.
- **Seveso category E1** Hazardous to the Aquatic Environment
- **Qualifying quantity (tonnes) for the application of lower-tier requirements** 100 t

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- **Qualifying quantity (tonnes) for the application of upper-tier requirements** 200 t
- **REGULATION (EC) No 1907/2006 ANNEX XVII** Conditions of restriction: 3
- **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

### SECTION 16: Other information

*This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.*

- **Relevant phrases**

H302 Harmful if swallowed.

H304 May be fatal if swallowed and enters airways.

H312 Harmful in contact with skin.

H314 Causes severe skin burns and eye damage.

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 the liver, the immune system and the gastro-intestinal tract through prolonged or repeated exposure.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

H412 Harmful to aquatic life with long lasting effects.

- **Contact:** Hr. Ing. Wachlhofer (+43 02622/27401 161)

- **Abbreviations and acronyms:**

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

Acute Tox. 4: Acute toxicity – Category 4

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

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

Eye Irrit. 2: Serious eye damage/eye irritation – Category 2

Skin Sens. 1: Skin sensitisation – Category 1

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

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

Asp. Tox. 1: Aspiration hazard – Category 1

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

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

Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3

- **\* Data compared to the previous version altered.**