



BE SURE. BUILD SURE.

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## Safety Data Sheet according to P.U.(A) 310/2013

Printing date 13.05.2023

Version number 23

Revision: 13.05.2023

### 1 Identification of the hazardous chemical and of the supplier

- **Product identifier**
- **Trade name** **MC-Ballastbond 60 - Komponente B**
- **Recommended use of the chemical and restrictions on use** *No further relevant information available.*
- **Application of the substance / the mixture** *Epoxy resin adhesive  
Hardening agent/ Curing agent*
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:** *MC-Bauchemie Müller GmbH & Co. KG  
Am Kruppwald 1-8  
D-46238 Bottrop  
Tel.: +49(0)2041-101-0  
Fax.: +49(0)2041-101-400  
E-Mail: info@mc-bauchemie.de*  
  
*MC-Bauchemie AG  
Hagackerstr. 10  
CH-8953 Dietikon  
Tel.: +44-7400510  
Fax : +44-7400533*
- **Informing department:** *msds@mc-bauchemie.de*

### 2 Hazard identification

- **Classification of the substance or mixture**  
*Acute Tox. 4 H312 Harmful if in contact with skin.  
Skin Corr. 1 H314 Causes severe skin burns and eye damage.  
Eye Dam. 1 H318 Causes serious eye damage.  
Skin Sens. 1 H317 May cause allergic skin reaction.  
Repr. 2 H361 Suspected of damaging fertility or the unborn child.  
STOT RE 2 H373 May cause damage to organs through prolonged or repeated exposure.  
Aquatic Chronic 2 H411 Toxic to aquatic life with long lasting effects.*

- **Label elements**

- **GHS label elements**

The product is classified and labelled according to the Globally Harmonised System (GHS).

- **Hazard pictograms**



GHS05 GHS07 GHS08 GHS09

- **Signal word**

*Danger*

- **Hazard-determining components of labelling:**

*Benzyl alcohol  
2-methylpentane-1,5-diamine*

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- **Hazard statements**
  - polymer amine terminated
  - 2-piperazin-1-ylethylamine
  - Tetraethylenepentamine
  - Harmful if in contact with skin.
  - Causes severe skin burns and eye damage.
  - May cause allergic skin reaction.
  - Suspected of damaging fertility or the unborn child.
  - May cause damage to organs through prolonged or repeated exposure.
- **Precautionary statements**
  - Toxic to aquatic life with long lasting effects.
  - Do not breathe dusts or mists.
  - Wear protective gloves/protective clothing/eye protection/face protection.
  - Use personal protective equipment as required.
  - IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Rinse skin with water/shower.
  - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
  - Immediately call a POISON CENTER/doctor.
  - Specific measures (see on this label).
- **Other hazards**
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.

**3 Composition and information of the ingredients of the hazardous chemical**

- **Chemical characterisation: Mixtures**
- **Description:** Mixture consisting of the following components.

**Dangerous components:**

|            |   |          |
|------------|---|----------|
| 100-51-6   | Benzyl alcohol<br>Acute Tox. 4, H302; Acute Tox. 4, H332; Eye Irrit. 2, H319  | 10-30%   |
| 38640-62-9 | Diisopropyl-naphthalin-Isomere<br>Aquatic Chronic 1, H410   | ≥10-<25% |
|            | polymer amine terminated<br>Eye Dam. 1, H318; Skin Irrit. 2, H315; Skin Sens. 1, H317   | 10-30%   |
| 15520-10-2 | 2-methylpentane-1,5-diamine<br>Skin Corr. 1, H314; Eye Dam. 1, H318; Acute Tox. 4, H302; Acute Tox. 4, H312; Acute Tox. 4, H332; STOT SE 3, H335                      | ≥10-<20% |
| 90640-66-7 | Tetraethylenepentamine<br>Skin Corr. 1, H314; Eye Dam. 1, H318; Skin Sens. 1, H317  | 10-30%   |
| 140-31-8   | 2-piperazin-1-ylethylamine<br>Acute Tox. 3, H311; Repr. 2, H361; STOT RE 1, H372; Skin Corr. 1, H314; Acute Tox. 4, H302; Skin Sens. 1, H317; Aquatic Chronic 3, H412 | ≥5-<10%  |

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· **Additional information**

For the wording of the listed hazard phrases refer to section 16.

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### 4 First-aid measures

· **Description of first aid measures**

· **General information**

Instantly remove any clothing soiled by the product.  
Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

· **After inhalation**

Supply fresh air and call for doctor for safety reasons.  
In case of unconsciousness bring patient into stable side position for transport.

· **After skin contact**

Instantly wash with water and soap and rinse thoroughly.

· **After eye contact**

Rinse opened eye for several minutes under running water. Then consult a doctor.

· **After swallowing**

Instantly call for doctor.

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

· **Information for doctor**

· **Most important symptoms and effects, both acute and delayed**

No further relevant information available.

· **Indication of any immediate medical attention and special treatment needed**

No further relevant information available.

### 5 Fire-fighting measures

· **Extinguishing media**

· **Suitable extinguishing agents** CO<sub>2</sub>, extinguishing powder or water jet. Fight larger fires with water jet or alcohol-resistant foam.

· **Special hazards arising from the substance or mixture**

No further relevant information available.

· **Advice for firefighters**

· **Protective equipment:**

No special measures required.

### 6 Accidental release measures

· **Personal precautions, protective equipment and emergency procedures**

Wear protective equipment. Keep unprotected persons away.

· **Environmental precautions:**

Do not allow product to reach sewage system or water bodies.

Inform respective authorities in case product reaches water or sewage system.

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- **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.
- **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.

#### 7 Handling and storage

- **Handling**
- **Precautions for safe handling** Store in cool, dry place in tightly closed containers.  
Open and handle container with care.
- **Information about protection against explosions and fires:** No special measures required.
- **Conditions for safe storage, including any incompatibilities**
- **Storage**
- **Requirements to be met by storerooms and containers:** No special requirements.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:** Keep container tightly sealed.
- **Storage class** 8A
- **Specific end use(s)** No further relevant information available.

#### 8 Exposure controls and personal protection

- **Additional information about design of technical systems:** No further data; see section 7.
- **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.

· **DNELs**

**100-51-6 Benzyl alcohol**

|            |      |   |
|------------|------|---|
| Oral       | DNEL | 4 mg/kg bw/Tag (ArL)<br>20 mg/kg bw/Tag (Ark) |
| Dermal     | DNEL | 8 mg/kg bw/day (ArL)<br>40 mg/kg bw/day (Ark) |
| Inhalative | DNEL | 22 mg/m <sup>3</sup> (ArL)                    |

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|   |  |   |
|---|--|---|
|   |  | 110 mg/m <sup>3</sup> (Ark)                                 |
| <b>15520-10-2 2-methylpentane-1,5-diamine</b> |  |   |
| Dermal  | DNEL   | 1.5 mg/kg bw/day (ArL)                                      |
| Inhalative                                    | DNEL   | 0.25 mg/m <sup>3</sup> (ArL)<br>0.5 mg/m <sup>3</sup> (Ark) |
| <b>140-31-8 2-piperazin-1-ylethylamine</b>    |  |   |
| Dermal  | DNEL   | 3.33 mg/kg bw/day (ArL)                                     |
| Inhalative                                    | DNEL   | 10.6 mg/m <sup>3</sup> (ArL)                                |
| <b>· PNECs</b>                                |  |   |
| <b>100-51-6 Benzyl alcohol</b>                |  |   |
| PNEC  | 0.527 mg/l (Marine water sediment)<br>0.1 mg/l (Mew)<br>1 mg/l (Fresh water sediment)  |   |
| PNEC  | 0.456 mg/kg dwt (Bod)<br>5.27 mg/kg dwt (Fresh water sediment)                         |   |
| <b>15520-10-2 2-methylpentane-1,5-diamine</b> |  |   |
| PNEC  | 0.042 mg/l (Mew)<br>0.42 mg/l (Suw)  |   |
| <b>140-31-8 2-piperazin-1-ylethylamine</b>    |  |   |
| PNEC  | 250 mg/l (Kla)<br>0.0058 mg/l (Mew)<br>0.058 mg/l (Suw)                                |   |
| PNEC  | 1 mg/kg dwt (Bod)<br>21.5 mg/kg dwt (Sediment)<br>215 mg/kg dwt (Fresh water sediment) |   |

· **Additional information:** The lists that were valid during the compilation were used as basis.

· **Exposure controls**

· **Personal protective equipment**

· **General protective and hygienic measures**

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.

· **Protection of hands:**

Protective gloves.  
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation  
After use of gloves apply skin-cleaning agents and skin cosmetics.

· **Material of gloves**

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. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

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- **Penetration time of glove material** *The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.*
- **Eye protection:** *Safety glasses*
- **Body protection:** *Tightly sealed safety glasses.  
Protective work clothing.*

## 9 Physical and chemical properties

### · Information on basic physical and chemical properties

#### · General Information

#### · Appearance:

|                  |                       |
|------------------|-----------------------|
| · <b>Form:</b>   | <i>Fluid</i>          |
| · <b>Colour:</b> | <i>Colourless</i>     |
| · <b>Smell:</b>  | <i>Characteristic</i> |

· **pH-value at 20 °C:** *>10*

#### · Change in condition

|  |                       |
|--|-----------------------|
| · <b>Melting point/freezing point</b>            | <i>Not determined</i> |
| · <b>Initial boiling point and boiling range</b> | <i>193 °C</i>         |

· **Flash point:** *83 °C*

· **Auto-ignition temperature** *Product is not selfigniting.*

· **Explosive properties:** *Product is not explosive.*

#### · Critical values for explosion:

|                 |                  |
|-----------------|------------------|
| · <b>Lower:</b> | <i>1.3 Vol %</i> |
| · <b>Upper:</b> | <i>13 Vol %</i>  |

· **Steam pressure at 20 °C:** *0.1 hPa*

· **Vapour pressure at 50 °C:** *0.7 hPa*

· **Density at 20 °C** *1 g/cm<sup>3</sup>*

#### · Solubility in / Miscibility with

**Water:** *Not miscible or difficult to mix*

#### · Viscosity:

|                            |                        |
|----------------------------|------------------------|
| · <b>dynamic at 20 °C:</b> | <i>1800 mPas</i>       |
| · <b>kinematic:</b>        | <i>Not determined.</i> |

· **Other information** *No further relevant information available.*

## 10 Stability and reactivity

· **Reactivity** *No further relevant information available.*

· **Chemical stability**

· **Thermal decomposition / conditions to be avoided:** *No decomposition if used according to specifications.*

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- **Possibility of hazardous reactions** No dangerous reactions known
- **Conditions to avoid** No further relevant information available.
- **Incompatible materials:** No further relevant information available.
- **Hazardous decomposition products:** No dangerous decomposition products known

## 11 Toxicological information

- **Information on toxicological effects**
- **Acute toxicity**

· **LD/LC50 values that are relevant for classification:**

### 100-51-6 Benzyl alcohol

|            |                      |                                      |
|------------|----------------------|--------------------------------------|
| Oral       | LD50                 | 1230 mg/kg (rat)                     |
|            | NOAEL 2nd year study | 200 mg/kg (mouse)<br>200 mg/kg (rat) |
| Dermal     | LD50                 | 2000 mg/kg (rabbit)                  |
| Inhalative | LC50/4 h             | >4178 mg/l (rat)                     |

### 38640-62-9 Diisopropyl-naphthalin-Isomere

|            |               |                   |
|------------|---------------|-------------------|
| Oral       | LD50          | >4000 mg/kg (rat) |
| Dermal     | LD50          | >4000 mg/kg (rat) |
| Inhalative | LC50 OECD 403 | >5.6 mg/l (rat)   |

### 15520-10-2 2-methylpentane-1,5-diamine

|            |          |                     |
|------------|----------|---------------------|
| Oral       | LD50     | 1170 mg/kg (rat)    |
| Dermal     | LD50     | 1870 mg/kg (rabbit) |
| Inhalative | LC50/4 h | 19.6 mg/l (rat)     |

### 140-31-8 2-piperazin-1-ylethylamine

|        |      |                         |
|--------|------|-------------------------|
| Oral   | LD50 | 2000-5000 mg/kg (rat)   |
| Dermal | LD50 | 200-1000 mg/kg (rabbit) |

- **Primary irritant effect:**
- **Skin corrosion or irritation** Strong caustic effect on skin and mucous membranes.
- **Serious eye damage or eye irritation** Strong caustic effect.
- **Respiratory / skin sensitization** Sensitization possible by skin contact.
- **Additional toxicological information:** The product shows the following dangers according to the calculation method of the General EC Classification Guidelines for Preparations as issued in the latest version:  
Harmful  
Corrosive  
Irritant

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Swallowing will lead to a strong caustic effect on mouth and throat and to the danger of perforation of esophagus and stomach.

· **CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)**

Repr. 2

**12 Ecological information**

· **Toxicity**

· **Aquatic toxicity:**

**100-51-6 Benzyl alcohol**

|          |                                |
|----------|--------------------------------|
| IC50/72h | 700 mg/l (algae)               |
| LC50/96h | 460 mg/l (Pimephales promelas) |
|          | 10 mg/l (Lepomis macrochirus)  |

**38640-62-9 Diisopropylnaphthalin-Isomere**

|          |                           |
|----------|---------------------------|
| EC50/72h | 0.15 mg/l (algae)         |
| LC50/48h | 1.7 mg/l (Daphnia magna)  |
| EC50/48h | 0.16 mg/l (Daphnia magna) |

**15520-10-2 2-methylpentane-1,5-diamine**

|          |                           |
|----------|---------------------------|
| EC50/72h | >100 mg/l (algae)         |
| EC50     | 1825 mg/l (fish)          |
| EC50/48h | 19.8 mg/l (Daphnia magna) |

**140-31-8 2-piperazin-1-ylethylamine**

|          |                    |
|----------|--------------------|
| EC50/72h | >1000 mg/l (algae) |
| LC50/96h | 2190 mg/l (fish)   |

· **Persistence and degradability** No further relevant information available.

· **Behaviour in environmental systems:**

· **Bioaccumulative potential** No further relevant information available.

· **Mobility in soil** No further relevant information available.

· **Ecotoxicological effects:**

· **Remark:** Toxic for fish

· **Additional ecological information:**

· **General notes:** Also poisonous for fish and plankton in water bodies.  
Toxic for aquatic organisms  
Must not reach sewage water or drainage ditch undiluted or unneutralised.  
Danger to drinking water if even extremely small quantities leak into soil.

· **Results of PBT and vPvB assessment**

· **PBT:** Not applicable.

· **vPvB:** Not applicable.

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· **Other adverse effects**

No further relevant information available.

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#### 13 Disposal information

· **Waste treatment methods**

· **Recommendation**

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

· **Uncleaned packagings:**

· **Recommendation:**

Disposal must be made according to official regulations.

#### 14 Transportation information

· **UN-Number**

· **ADR, IMDG, IATA**

UN2735

· **UN proper shipping name**

· **ADR**

AMINES, LIQUID, CORROSIVE, N.O.S. (2-methylpentane-1,5-diamine, Tetraethylenepentamine), ENVIRONMENTALLY HAZARDOUS

· **IMDG**

AMINES, LIQUID, CORROSIVE, N.O.S. (2-methylpentane-1,5-diamine, Tetraethylenepentamine), MARINE POLLUTANT

· **IATA**

AMINES, LIQUID, CORROSIVE, N.O.S. (2-methylpentane-1,5-diamine, Tetraethylenepentamine)

· **Transport hazard class(es)**

· **ADR**

· **Class**

· **Label**

8 (C7) Corrosive substances.

8

· **IMDG, IATA**

· **Class**

· **Label**

8 Corrosive substances.

8

· **Packing group**

· **ADR, IMDG, IATA**

II

· **Environmental hazards:**

Product contains environmentally hazardous substances: Tetraethylenepentamine

· **Marine pollutant:**

Yes

Symbol (fish and tree)

· **Special marking (ADR):**

Symbol (fish and tree)

· **Special precautions for user**

Warning: Corrosive substances.

· **Kemler Number:**

80

· **EMS Number:**

F-A,S-B

· **Segregation groups**

(SGG18) Alkalis

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|   |  |
|---|--|
| · <b>Stowage Category</b>   | A  |
| · <b>Segregation Code</b>   | SG35 Stow "separated from" SGG1-acids  |
| · <b>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>Excepted quantities (EQ)</b>   | Code: E2<br>Maximum net quantity per inner packaging: 30 ml<br>Maximum net quantity per outer packaging: 500 ml                        |
| · <b>Transport category</b>   | 2  |
| · <b>Tunnel restriction code</b>  | E  |
| -----   |  |
| · <b>IMDG</b>   |  |
| · <b>Limited quantities (LQ)</b>  | 1L   |
| · <b>Excepted quantities (EQ)</b>   | Code: E2<br>Maximum net quantity per inner packaging: 30 ml<br>Maximum net quantity per outer packaging: 500 ml                        |
| · <b>UN "Model Regulation":</b>   | UN 2735 AMINES, LIQUID, CORROSIVE, N.O.S. (2-METHYLPENTANE - 1, 5 - DIAMINE, TETRAETHYLENEPENTAMINE), 8, II, ENVIRONMENTALLY HAZARDOUS |

**15 Regulatory information**

· **Safety, health and environmental regulations/legislation specific for the substance or mixture**

· **EHS reference list**

|          |                            |
|----------|----------------------------|
| 100-51-6 | Benzyl alcohol             |
| 140-31-8 | 2-piperazin-1-ylethylamine |

· **Directive 2012/18/EU**

· **Named dangerous substances - ANNEX I**

None of the ingredients is listed.

· **Seveso category**

E2 Hazardous to the Aquatic Environment

· **Qualifying quantity (tonnes) for the application of lower-tier requirements**

200 t

· **Qualifying quantity (tonnes) for the application of upper-tier requirements**

500 t

· **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

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### 16 Other information

*These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.*

· **Department issuing data specification sheet:**

*Environment protection department.*

· **Contact:**

· **Abbreviations and acronyms:**

*RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)*

*ICAO: International Civil Aviation Organisation*

*ADR: Accord relatif au transport international 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*

*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)*

*DNEL: Derived No-Effect Level (REACH)*

*PNEC: Predicted No-Effect Concentration (REACH)*

*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 - oral - Category 4*

*Acute Tox. 3: Acute toxicity - oral - Category 3*

*Skin Corr. 1: Skin corrosion or irritation - Category 1*

*Skin Irrit. 2: Skin corrosion or irritation - Category 2*

*Eye Dam. 1: Serious eye damage or eye irritation - Category 1*

*Eye Irrit. 2: Serious eye damage or eye irritation - Category 2*

*Skin Sens. 1: Skin sensitization - Category 1*

*Repr. 2: Reproductive toxicity - Category 2*

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

*STOT RE 1: Specific target organ toxicity (repeated exposure) - Category 1*

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

*Aquatic Chronic 1: Hazardous to the aquatic environment - chronic hazard - Category 1*

*Aquatic Chronic 2: Hazardous to the aquatic environment - chronic hazard - Category 2*

*Aquatic Chronic 3: Hazardous to the aquatic environment - chronic hazard - Category 3*

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

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