



BE SURE. BUILD SURE.

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

Printing date 27.05.2022

Version number 16



Revision: 27.05.2022

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

- **Product identifier**
- **Trade name** **MC-Injekt 1264 compact - Komponente A**
- **Relevant identified uses of the substance or mixture and uses advised against** No further relevant information available.
- **Application of the substance / the mixture** Epoxy resin  
Injektion
- **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
- **Emergency telephone number:** Tel.: +49 / (0)700 24112112 (MCR)  
Tel.: +48612864565

### 2 Hazards identification

- **Classification of the substance or mixture**
  - Skin Irrit. 2 H315 Causes skin irritation.
  - Eye Irritation 2A H319 Causes serious eye irritation.
  - Skin Sens. 1 H317 May cause an allergic skin reaction.
  - Aquatic Acute 1 H400 Very toxic to aquatic life.
  - 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**



GHS07 GHS09
- **Signal word** Warning
- **Hazard-determining components of labelling:** bis[4-(2,3-epoxypropoxy)phenyl]propane

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**Hazard statements**

oxirane, mono[(C12-14-alkyloxy)methyl] derivs  
2,2'-[methylenebis(p-phenyleneoxymethylene)]bisoxirane polymers  
and homologues, molecular weight < 700  
1,6-hexene-diglycidylether  
Causes skin irritation.  
Causes serious eye irritation.  
May cause an allergic skin reaction.  
Very toxic to aquatic life.

**Precautionary statements**

Toxic to aquatic life with long lasting effects.  
Avoid breathing dust/fume/gas/mist/vapours/spray.  
Avoid release to the environment.  
Wear protective gloves / eye protection / face protection.  
IF IN EYES: Rinse cautiously with water for several minutes.  
Remove contact lenses, if present and easy to do. Continue rinsing.  
If skin irritation or rash occurs: Get medical advice/attention.  
If eye irritation persists: Get medical advice/attention.

**Other hazards**

**Results of PBT and vPvB assessment**

**PBT:** Not applicable.  
**vPvB:** Not applicable.

### 3 Composition/information on ingredients

**Chemical characterisation: Mixtures**

**Description:** Resin mixture with colouring agents.  
Mixture consisting of the following components.

**Dangerous components:**

|            |  |           |
|------------|--|-----------|
| 1675-54-3  | bis[4-(2,3-epoxypropoxy)phenyl]propane<br>Aquatic Acute 1, H400; Aquatic Chronic 2, H411; Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317  | 70-100%   |
| 100-51-6   | benzyl alcohol<br>Acute Tox. 4, H302; Acute Tox. 4, H312; Acute Tox. 4, H332; Eye Irrit. 2, H319   | ≥10-<25%  |
| 68609-97-2 | oxirane, mono[(C12-14-alkyloxy)methyl] derivs<br>Skin Irrit. 2, H315; Skin Sens. 1, H317   | ≥10-<25%  |
| 9003-36-5  | 2,2'-[methylenebis(p-phenyleneoxymethylene)]bisoxirane polymers and homologues, molecular weight < 700<br>Aquatic Chronic 2, H411; Skin Irrit. 2, H315; Eye Irritation 2A, H319; Skin Sens. 1, H317; Acute Tox. 5, H303; Acute Tox. 5, H313; Aquatic Acute 2, H401 | ≥2.5-<10% |
| 16096-31-4 | 1,6-hexene-diglycidylether<br>Skin Irrit. 2, H315; Eye Irritation 2A, H319; Skin Sens. 1, H317; Acute Tox. 5, H313; Aquatic Acute 3, H402; Aquatic Chronic 3, H412   | ≥1-<2.5%  |

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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

- **After inhalation** Supply fresh air.
- **After skin contact** Instantly wash with water and soap and rinse thoroughly.
- **After eye contact** Rinse opened eye for several minutes under running water.  
Seek medical treatment.
- **After swallowing** Rinse out mouth and then drink plenty of water.  
Seek medical treatment.
- **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 Firefighting measures

- **Extinguishing media**
- **Suitable extinguishing agents** Use fire fighting measures that suit the environment.
- **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** Not required.
- **Environmental precautions:** Prevent material from reaching sewage system, holes and cellars.
- **Methods and material for containment and cleaning up:** Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
- **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.

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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.
- **Specific end use(s)** No further relevant information available.

### 8 Exposure controls/personal protection

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

· **Components with critical values that require monitoring at the workplace:**

**100-51-6 benzyl alcohol**

WEEL (USA) Long-term value: 10 ppm

· **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)<br>110 mg/m <sup>3</sup> (Ark) |

**68609-97-2 oxirane, mono[(C12-14-alkyloxy)methyl] derivs**

|            |      |                              |
|------------|------|------------------------------|
| Oral       | DNEL | 1 mg/kg bw/Tag (ArL)         |
| Dermal     | DNEL | 1.7 mg/kg bw/day (ArL)       |
| Inhalative | DNEL | 0.98 mg/m <sup>3</sup> (ArL) |

**16096-31-4 1,6-hexene-diglycidylether**

|            |      |                             |
|------------|------|-----------------------------|
| Dermal     | DNEL | 2.8 mg/kg bw/day (ArL)      |
| Inhalative | DNEL | 4.9 mg/m <sup>3</sup> (ArL) |

· **PNECs**

**100-51-6 benzyl alcohol**

|      |                                    |
|------|------------------------------------|
| PNEC | 0.527 mg/l (Marine water sediment) |
|      | 0.1 mg/l (Mew)                     |
|      | 1 mg/l (Fresh water sediment)      |

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|   |  |
|---|--|
| PNEC  | 0.456 mg/kg dwt (Bod)<br>5.27 mg/kg dwt (Fresh water sediment)                                 |
| <b>68609-97-2 oxirane, mono[(C12-14-alkyloxy)methyl] derivs</b> |  |
| PNEC  | 0.00072 mg/l (Mew)<br>0.0072 mg/l (Suw)  |
| PNEC  | 80.12 mg/kg dwt (Bod)<br>6.677 mg/kg dwt (Sediment)<br>66.77 mg/kg dwt (Fresh water sediment)  |
| <b>16096-31-4 1,6-hexene-diglycidylether</b>                    |  |
| PNEC  | 0.0115 mg/l (Fresh water)<br>0.00115 mg/l (Mew)  |
| PNEC  | 0.223 mg/kg dwt (Bod)<br>0.0283 mg/kg dwt (Sediment)<br>0.283 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.
- **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
  - Tightly sealed safety glasses.
- **Body protection:**
  - Protective work clothing.

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### 9 Physical and chemical properties

· **Information on basic physical and chemical properties**

· **General Information**

· **Appearance:**

|         |                |
|---------|----------------|
| Form:   | Fluid          |
| Colour: | Transparent    |
| Smell:  | Characteristic |

· **Change in condition**

|  |                |
|--|----------------|
| Melting point/freezing point:            | Not determined |
| Initial boiling point and boiling range: | 205 °C         |

|              |          |
|--------------|----------|
| Flash point: | > 110 °C |
|--------------|----------|

|                       |        |
|-----------------------|--------|
| Ignition temperature: | 184 °C |
|-----------------------|--------|

|                      |                              |
|----------------------|------------------------------|
| Self-inflammability: | Product is not selfigniting. |
|----------------------|------------------------------|

|                       |                           |
|-----------------------|---------------------------|
| Explosive properties: | Product is not explosive. |
|-----------------------|---------------------------|

|                          |         |
|--------------------------|---------|
| Steam pressure at 20 °C: | 0.1 hPa |
|--------------------------|---------|

|                  |                        |
|------------------|------------------------|
| Density at 20 °C | 1.12 g/cm <sup>3</sup> |
|------------------|------------------------|

· **Solubility in / Miscibility with**

|        |                                  |
|--------|----------------------------------|
| Water: | Not miscible or difficult to mix |
|--------|----------------------------------|

|                   |  |
|-------------------|--|
| 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.

· **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:**

**1675-54-3 bis[4-(2,3-epoxypropoxy)phenyl]propane**

|        |      |                      |
|--------|------|----------------------|
| Dermal | LD50 | 23000 mg/kg (rabbit) |
|--------|------|----------------------|

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### 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)                     |

### 68609-97-2 oxirane, mono[(C12-14-alkyloxy)methyl] derivs

|      |      |                   |
|------|------|-------------------|
| Oral | LD50 | 17100 mg/kg (rat) |
|------|------|-------------------|

### 9003-36-5 2,2'-[methylenabis(p-phenyleneoxymethylene)]bisoxirane polymers and homologues, molecular weight < 700

|        |      |                      |
|--------|------|----------------------|
| Oral   | LD50 | >2000 mg/kg (rat)    |
| Dermal | LD50 | >2000 mg/kg (rabbit) |

### 16096-31-4 1,6-hexene-diglycidylether

|        |      |                   |
|--------|------|-------------------|
| Oral   | LD50 | >8500 mg/kg (rat) |
| Dermal | LD50 | >4900 mg/kg (rat) |

· **Primary irritant effect:**

· **Skin corrosion/irritation** Irritant for skin and mucous membranes.

· **Serious eye damage/irritation** No irritant effect.

· **Respiratory or skin**

**sensitisation**

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:  
Irritant

## 12 Ecological information

· **Toxicity**

· **Aquatic toxicity:**

### 1675-54-3 bis[4-(2,3-epoxypropoxy)phenyl]propane

|           |                                     |
|-----------|-------------------------------------|
| IC50      | >42.6 mg/l (Bak)                    |
| LC50/96h  | 2 mg/l (Oncorhynchus mykiss)        |
| EC50/48h  | 1.8 mg/l (Daphnia magna)            |
| ErC50/72h | 11 mg/l (Selenastrum capricornutum) |

### 100-51-6 benzyl alcohol

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

### 68609-97-2 oxirane, mono[(C12-14-alkyloxy)methyl] derivs

|           |  |
|-----------|--|
| EbC50/72h | 843 mg/l (Pseudokirchneriella subcapitata) |
|-----------|--|

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|   |  |
|---|--|
| LC50/96h  | >5000 mg/l (Oncorhynchus mykiss)           |
|   | 1800 mg/l (Lepomis macrochirus)            |
| EC50  | >100 mg/l (BEL)                            |
| NOEC  | 500 mg/l (Pseudokirchneriella subcapitata) |
| <b>9003-36-5 2,2'-[methylenbis(p-phenyleneoxymethylene)]bisoxirane polymers and homologues, molecular weight &lt; 700</b> |  |
| LC50/96h  | >100 mg/l (Daphnia magna)                  |
| EC50/96h  | >100 mg/l (Leucidus idus)                  |
| <b>16096-31-4 1,6-hexene-diglycidylether</b>  |  |
| LC50/96h  | 30 mg/l (Leucidus idus)                    |
| EC50/48h  | 47 mg/l (Daphnia magna)                    |

- **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.
- **Additional ecological information:**
- **General notes:** Do not allow product to reach ground water, water bodies or sewage system.  
Danger to drinking water if even small quantities leak into soil.
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **Other adverse effects** No further relevant information available.

### 13 Disposal considerations

- **Waste treatment methods**
- **Recommendation** Must not be disposed of together with household garbage. Do not allow product to reach sewage system.
- **Uncleaned packagings:**
- **Recommendation:** Empty contaminated packagings thoroughly. They can be recycled after thorough and proper cleaning.

### 14 Transport information

- **UN-Number**
- **ADR, IMDG, IATA** UN3082
- **UN proper shipping name**
- **ADR, IATA** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (epoxide derivates, oxirane, mono[(C12-14-alkyloxy)methyl] derivs)
- **IMDG** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (epoxide derivates, oxirane,

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|   |  |
|---|--|
| ·   | mono[(C12-14-alkyloxy)methyl] derivs), MARINE POLLUTANT  |
| · <b>Transport hazard class(es)</b>   |  |
| · <b>ADR</b>  |  |
| · <b>Class</b>  | 9 (M6) Miscellaneous dangerous substances and articles.  |
| · <b>Label</b>  | 9  |
| · <b>IMDG, IATA</b>   |  |
| · <b>Class</b>  | 9 Miscellaneous dangerous substances and articles.   |
| · <b>Label</b>  | 9  |
| · <b>Packing group</b>  |  |
| · <b>ADR, IMDG, IATA</b>  | III  |
| · <b>Environmental hazards:</b>   |  |
| · <b>Marine pollutant:</b>  | no<br>Yes<br>Symbol (fish and tree)  |
| · <b>Special marking (ADR):</b>   | Symbol (fish and tree)   |
| · <b>Special marking (IATA):</b>  | Symbol (fish and tree)   |
| · <b>Special precautions for user</b>                                       | Warning: Miscellaneous dangerous substances and articles.  |
| · <b>Kemler Number:</b>   | 90   |
| · <b>EMS Number:</b>  | F-A,S-F  |
| · <b>Stowage Category</b>   | A  |
| · <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>  | 5L   |
| · <b>Excepted quantities (EQ)</b>   | Code: E1<br>Maximum net quantity per inner packaging: 30 ml<br>Maximum net quantity per outer packaging: 1000 ml |
| · <b>Transport category</b>   | 3  |
| · <b>Tunnel restriction code</b>  | (-)  |
| · <b>Remarks:</b>   | 1 kg Gebinde: Begrenzte Mengen   |
| · <b>IMDG</b>   |  |
| · <b>Limited quantities (LQ)</b>  | 5L   |
| · <b>Excepted quantities (EQ)</b>   | Code: E1<br>Maximum net quantity per inner packaging: 30 ml<br>Maximum net quantity per outer packaging: 1000 ml |

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- **UN "Model Regulation":** UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (EPOXIDE DERIVATES, OXIRANE, MONO[(C12-14-ALKYLOXY)METHYL] DERIVS), 9, III

### 15 Regulatory information

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

### 16 Other information

- **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 – Category 4
  - Acute Tox. 5: Acute toxicity – Category 5
  - Skin Irrit. 2: Skin corrosion/irritation – Category 2
  - Eye Irrit. 2: Serious eye damage/eye irritation – Category 2
  - Eye Irritation 2A: Serious eye damage/eye irritation – Category 2A
  - Skin Sens. 1: Skin sensitisation – Category 1
  - Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1
  - Aquatic Acute 2: Hazardous to the aquatic environment - acute aquatic hazard – Category 2
  - Aquatic Acute 3: Hazardous to the aquatic environment - acute aquatic hazard – Category 3

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*Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2*

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

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

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