



BE SURE. BUILD SURE.

Page 1/10

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

Printing date 06.11.2018

Revision: 06.11.2018

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

· **1.1 Product identifier**

· **Trade name** MBC-VT 116 - Komponente A

· **Article number:** 2431

· **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**

Epoxy impregnation

· **1.3 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:**

Technische Abteilung  
msds@mc-bauchemie.de

· **1.4 Emergency telephone number:**

Tel.: +49 / (0)700 24112112 (MCR)  
Tel.: +48612864565

### SECTION 2: Hazards identification

· **2.1 Classification of the substance or mixture**

· **Classification according to Regulation (EC) No 1272/2008**

Skin Irrit. 2 H315 Causes skin irritation.

Eye Irrit. 2 H319 Causes serious eye irritation.

Skin Sens. 1 H317 May cause an allergic skin reaction.

Aquatic Chronic 2 H411 Toxic to aquatic life with long lasting effects.

· **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**



GHS07 GHS09

(Contd. on page 2)

GB



BE SURE. BUILD SURE.

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

Printing date 06.11.2018

Revision: 06.11.2018

**Trade name MBC-VT 116 - Komponente A**

(Contd. of page 1)

- **Signal word** Warning
- **Hazard-determining components of labelling:** *Propyl -2,2-diphenyl-4,4'dipropyloxirane polymers and homologues  
[[[(2-ethylhexyl)oxy]methyl]oxirane  
epoxide derivates  
1,6-hexene-diglycidylether*
- **Hazard statements** *H315 Causes skin irritation.  
H319 Causes serious eye irritation.  
H317 May cause an allergic skin reaction.  
H411 Toxic to aquatic life with long lasting effects.*
- **Precautionary statements** *P261 Avoid breathing dust/fume/gas/mist/vapours/  
spray.  
P273 Avoid release to the environment.  
P280 Wear protective gloves / eye protection / face  
protection.  
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.*
- **Additional information:** *Contains epoxy constituents. May produce an allergic reaction.*
- **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.*

· **Dangerous components:**

CAS: 25068-38-6 NLP: 500-033-5 Reg.nr.: 01-2119456619-26-0002	<i>Propyl -2,2-diphenyl-4,4'dipropyloxirane polymers and homologues Aquatic Chronic 2, H411; Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317</i>	<i>70-100%</i>
CAS: 2461-15-6 EINECS: 219-553-6	<i>[[[(2-ethylhexyl)oxy]methyl]oxirane Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317</i>	<i>≥10-&lt;25%</i>
CAS: 9003-36-5 NLP: 500-006-8	<i>epoxide derivates Aquatic Chronic 2, H411; Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317</i>	<i>≥2.5-&lt;5%</i>
CAS: 16096-31-4 EINECS: 240-260-4	<i>1,6-hexene-diglycidylether Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317; Aquatic Chronic 3, H412</i>	<i>≥2.5-&lt;5%</i>

(Contd. on page 3)



BE SURE. BUILD SURE.

Page 3/10

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

Printing date 06.11.2018

Revision: 06.11.2018

Trade name **MBC-VT 116 - Komponente A**

· **Additional information**

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

(Contd. of page 2)

### SECTION 4: First aid measures

· **4.1 Description of first aid measures**

- **After inhalation** Supply fresh air; consult doctor in case of symptoms.
- **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.

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

No further relevant information available.

· **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** 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**

Can be released in case of fire  
Carbon monoxide (CO)  
Nitrogen oxides (NO<sub>x</sub>)  
(Traces)

· **5.3 Advice for firefighters**

- **Protective equipment:** Wear self-contained breathing apparatus.

### SECTION 6: Accidental release measures

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

Wear protective equipment. Keep unprotected persons away.

· **6.2 Environmental precautions:**

Prevent material from reaching sewage system, holes and cellars.  
Inform respective authorities in case product reaches water or sewage system.

· **6.3 Methods and material for**

**containment and cleaning up:** Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

(Contd. on page 4)

GB



BE SURE. BUILD SURE.

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

Printing date 06.11.2018

Revision: 06.11.2018

Trade name **MBC-VT 116 - Komponente A**

(Contd. of page 3)

· **6.4 Reference to other sections**

Ensure adequate ventilation.

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**

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.

· **7.2 Conditions for safe storage, including any incompatibilities**

· **Storage**

· **Requirements to be met by storerooms and containers:**

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.

· **7.3 Specific end use(s)**

No further relevant information available.

#### 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.

· **DNELs**

**25068-38-6 Propyl -2,2-diphenyl-4,4'dipropylloxirane polymers and homologues**

Oral	DNEL	0.75 mg/kg bw/Tag (General) (Kurzfristig und Langfristig Systemisch)
Dermal	DNEL	3.6 mg/kg bw/day (General) (Kurzfristig und Langfristig Systemisch) 8.3 mg/kg bw/day (Workers) (Kurzfristig und Langfristig Systemisch)
Inhalative	DNEL	0.75 mg/m <sup>3</sup> (General) (Kurzfristig und Langfristig Systemisch) 12.3 mg/m <sup>3</sup> (Workers) (Kurzfristig und Langfristig Systemisch)

· **PNECs**

**25068-38-6 Propyl -2,2-diphenyl-4,4'dipropylloxirane polymers and homologues**

PNEC	3 µg/l (Fresh water)
	0.3 µg/l (Marine)

(Contd. on page 5)



BE SURE. BUILD SURE.

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

Printing date 06.11.2018

Revision: 06.11.2018

**Trade name MBC-VT 116 - Komponente A**

(Contd. of page 4)

PNEC	10 mg/l (Sewage Treatment Plant)
PNEC	0.5 mg/kg dwt (Marine water sediment)
	0.05 mg/kg dwt (Sediment)
	0.5 mg/kg dwt (Fresh water sediment)

- **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**
  - 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 through 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.

#### SECTION 9: Physical and chemical properties

- **9.1 Information on basic physical and chemical properties**
- **General Information**
- **Appearance:**
  - Form:** Fluid
  - Colour:** Transparent
  - Smell:** Characteristic
- **pH-value at 20 °C:** nicht anwendbar
- **Change in condition**
  - Melting point/freezing point:** Not determined
  - Initial boiling point and boiling range:** > 200 °C
- **Flash point:** 101 °C
- **Ignition temperature:** 184 °C

(Contd. on page 6)



BE SURE. BUILD SURE.

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

Printing date 06.11.2018

Revision: 06.11.2018

**Trade name MBC-VT 116 - Komponente A**

(Contd. of page 5)

· <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>	1.3 Vol %
<b>Upper:</b>	13.0 Vol %
· <b>Steam pressure at 20 °C:</b>	0.1 hPa
· <b>Density at 20 °C</b>	1.12 g/cm <sup>3</sup>
· <b>Solubility in / Miscibility with Water:</b>	Not miscible or difficult to mix
· <b>9.2 Other information</b>	No further relevant information available.

**SECTION 10: Stability and reactivity**

· <b>10.1 Reactivity</b>	No further relevant information available.
· <b>10.2 Chemical stability</b>	
· <b>Thermal decomposition / conditions to be avoided:</b>	No decomposition if used according to specifications.
· <b>10.3 Possibility of hazardous reactions</b>	No dangerous reactions known
· <b>10.4 Conditions to avoid</b>	No further relevant information available.
· <b>10.5 Incompatible materials:</b>	No further relevant information available.
· <b>10.6 Hazardous decomposition products:</b>	No dangerous decomposition products known

**SECTION 11: Toxicological information**

· <b>11.1 Information on toxicological effects</b>	
· <b>Acute toxicity</b>	Based on available data, the classification criteria are not met.

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

**25068-38-6 Propyl -2,2-diphenyl-4,4'dipropylloxirane polymers and homologues**

Oral	LD50	30,000 mg/kg (Ratte)
Dermal	LD50	>2,000 mg/kg (kan)

**2461-15-6 [[(2-ethylhexyl)oxy]methyl]oxirane**

Oral	LD50	>7,500 mg/kg (Ratte)
Dermal	LD50	>3,600 mg/kg (kan)

**9003-36-5 epoxide derivates**

Oral	LD50	23,800 mg/kg (Ratte)
Dermal	LD50	>2,000 mg/kg (kan)

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

Oral	LD50	8,500 mg/kg (Ratte)
------	------	---------------------

(Contd. on page 7)



BE SURE. BUILD SURE.

Page 7/10

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

Printing date 06.11.2018

Revision: 06.11.2018

Trade name **MBC-VT 116 - Komponente A**

(Contd. of page 6)

Dermal LD50 >4,900 mg/kg (Ratte)

- **Primary irritant effect:**
- **Skin corrosion/irritation** Causes skin irritation.
- **Serious eye damage/irritation** Causes serious eye irritation.
- **Respiratory or skin sensitisation** May cause an allergic skin reaction.
- **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.
- **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:** No further relevant information available.
- **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.
- **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.
- **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** 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.

GB

(Contd. on page 8)



BE SURE. BUILD SURE.

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

Printing date 06.11.2018

Revision: 06.11.2018

Trade name **MBC-VT 116 - Komponente A**

(Contd. of page 7)

#### SECTION 14: Transport information

· <b>14.1 UN-Number</b> · <b>ADR, IMDG, IATA</b>	UN3082
· <b>14.2 UN proper shipping name</b> · <b>ADR</b> · <b>IMDG</b> · <b>IATA</b>	3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (epoxide derivates) ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (epoxide derivates), MARINE POLLUTANT ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (epoxide derivates)
· <b>14.3 Transport hazard class(es)</b> · <b>ADR</b> · <b>Class</b> · <b>Label</b>	9 (M6) Miscellaneous dangerous substances and articles. 9
· <b>IMDG, IATA</b> · <b>Class</b> · <b>Label</b>	9 Miscellaneous dangerous substances and articles. 9
· <b>14.4 Packing group</b> · <b>ADR, IMDG, IATA</b>	III
· <b>14.5 Environmental hazards:</b> · <b>Marine pollutant:</b>  · <b>Special marking (ADR):</b> · <b>Special marking (IATA):</b>	no Yes Symbol (fish and tree) Symbol (fish and tree) Symbol (fish and tree)
· <b>14.6 Special precautions for user</b> · <b>Kemler Number:</b> · <b>EMS Number:</b> · <b>Stowage Category</b>	Warning: Miscellaneous dangerous substances and articles. 90 F-A, S-F A
· <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> · <b>Excepted quantities (EQ)</b>  · <b>Transport category</b>	5L Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml 3

(Contd. on page 9)





BE SURE. BUILD SURE.

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

Printing date 06.11.2018

Revision: 06.11.2018

Trade name **MBC-VT 116 - Komponente A**

(Contd. of page 8)

· <b>Tunnel restriction code</b>	<b>E</b>
· <b>IMDG</b>	
· <b>Limited quantities (LQ)</b>	<b>5L</b>
· <b>Excepted quantities (EQ)</b>	<b>Code: E1</b> <i>Maximum net quantity per inner packaging: 30 ml</i> <i>Maximum net quantity per outer packaging: 1000 ml</i>
· <b>UN "Model Regulation":</b>	<b>UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (EPOXIDE DERIVATES), 9, III</b>

#### SECTION 15: Regulatory information

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **Directive 2012/18/EU**
- **Qualifying quantity (tonnes) for the application of lower-tier requirements** 200 t
- **Qualifying quantity (tonnes) for the application of upper-tier requirements** 500 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

*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.*

- **Relevant phrases** H315 Causes skin irritation.  
H317 May cause an allergic skin reaction.  
H319 Causes serious eye irritation.  
H411 Toxic to aquatic life with long lasting effects.  
H412 Harmful to aquatic life with long lasting effects.
- **Department issuing data specification sheet:** Environment protection department.
- **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 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

(Contd. on page 10)



BE SURE. BUILD SURE.

Page 10/10

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

Printing date 06.11.2018

Revision: 06.11.2018

**Trade name MBC-VT 116 - Komponente A**

(Contd. of page 9)

*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)*  
*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*  
*Skin Irrit. 2: Skin corrosion/irritation – Category 2*  
*Eye Irrit. 2: Serious eye damage/eye irritation – Category 2*  
*Skin Sens. 1: Skin sensitisation – Category 1*  
*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.**

GB