



BE SURE. BUILD SURE.

Page 1/10

## Safety data sheet according to Regulation (EC) No 1907/2006, Article 31

Printing date 09.03.2024

Version number 31 (replaces version 30)

Revision: 09.03.2024

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

#### 1.1 Product identifier

Trade name **MC-DUR 1177 WV-A - Komponente B**

Article number: 1353

#### 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  
EP-Additives  
Hardening agent/ Curing agent

#### 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: msds@mc-bauchemie.de

#### 1.4 Emergency telephone number:

Tel.: +49 / (0)700 24112112 (MCR)  
Tel.: +1 872 5888271 (MCR)

### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

##### Classification according to Regulation (EC) No 1272/2008

Eye Dam. 1 H318 Causes serious eye damage.

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 GB CLP regulation.

##### Hazard pictograms



GHS05 GHS07

##### Signal word

Danger

(Contd. on page 2)

GB



BE SURE. BUILD SURE.

## Safety data sheet according to Regulation (EC) No 1907/2006, Article 31

Printing date 09.03.2024

Version number 31 (replaces version 30)

Revision: 09.03.2024

**Trade name MC-DUR 1177 WV-A - Komponente B**

(Contd. of page 1)

- **Hazard-determining components of labelling:** Polymer Epoxidharz-Addukt  
Aminpolymer  
3,6,9-triazaundecamethylenediamine
- **Hazard statements** H318 Causes serious eye damage.  
H317 May cause an allergic skin reaction.
- **Precautionary statements**

P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
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.
P310	Immediately call a POISON CENTER/doctor.
P321	Specific treatment (see on this label).
P362+P364	Take off contaminated clothing and wash it before reuse.
- **2.3 Other hazards**
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.

### SECTION 3: Composition/information on ingredients

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

· **Dangerous components:**

CAS: 260549-92-6	Polymer Epoxidharz-Addukt Eye Dam. 1, H318	30-60%
CAS: 180583-06-6	Aminpolymer Skin Sens. 1, H317	10-30%
CAS: 112-57-2 EINECS: 203-986-2	3,6,9-triazaundecamethylenediamine Skin Corr. 1B, H314; Eye Dam. 1, H318; Aquatic Chronic 2, H411; Acute Tox. 4, H302; Acute Tox. 4, H312; Skin Sens. 1, H317	≥0.25-<0.5%

- **Additional information** For the wording of the listed hazard phrases refer to section 16.

### SECTION 4: First aid measures

- **4.1 Description of first aid measures**
- **General information** Remove contaminated clothing immediately. Consult a doctor if symptoms occur. Move affected person to fresh air.
- **After inhalation** Supply fresh air; seek medical advice if symptoms occur.  
If unconscious, place in recovery position and seek medical advice.
- **After skin contact** In case of contact with skin, wash carefully with plenty of soap and water. Consult a doctor in case of skin reactions.

(Contd. on page 3)



BE SURE. BUILD SURE.

Page 3/10

## Safety data sheet according to Regulation (EC) No 1907/2006, Article 31

Printing date 09.03.2024

Version number 31 (replaces version 30)

Revision: 09.03.2024

**Trade name MC-DUR 1177 WV-A - Komponente B**

(Contd. of page 2)

- **After eye contact** Rinse opened eye for several minutes under running water.  
Call a doctor immediately
- **After swallowing** Rinse mouth with water. Never give anything by mouth to an unconscious person. DO NOT induce vomiting. If symptoms persist, consult a doctor.
- **4.2 Most important symptoms and effects, both acute and delayed** Advice for the doctor: Elementary aid, decontamination, symptomatic treatment.

### SECTION 5: Firefighting measures

- **5.1 Extinguishing media**
- **Suitable extinguishing agents** Use fire fighting measures that suit the environment.
- **5.2 Special hazards arising from the substance or mixture** No further relevant information available.
- **5.3 Advice for firefighters**
- **Protective equipment:** No special measures required.

### SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures** Not required.
- **6.2 Environmental precautions:** Prevent material from reaching sewage system, holes and cellars.  
Dilute with much water.
- **6.3 Methods and material for containment and cleaning up:** Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).  
Dispose of contaminated material as waste according to item 13.
- **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** Open and handle containers with care.  
Only use in well-ventilated areas (e.g. open construction, outdoor areas), in rooms without air exchange (e.g. closed rooms, underground car parks) ventilation measures are required.  
are required.  
Wear suitable personal protective equipment (see section 8). Avoid contact with eyes, skin and clothing. Change contaminated or

(Contd. on page 4)

GB



BE SURE. BUILD SURE.

### Safety data sheet according to Regulation (EC) No 1907/2006, Article 31

Printing date 09.03.2024

Version number 31 (replaces version 30)

Revision: 09.03.2024

**Trade name MC-DUR 1177 WV-A - Komponente B**

(Contd. of page 3)

damaged gloves and contaminated clothing immediately and wash skin immediately. Mix slowly, partially covering the mixing container. Pour carefully and slowly when repotting. Observe the BGBau technical data sheet and practical guide for handling epoxy resins. Open and handle containers with care.

**Information about protection against explosions and fires:**

Ensure sufficient air exchange and/or extraction in the working areas. Take precautionary measures to avoid electrostatic discharges.

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

**Storage**

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

No special requirements.

**Further information about storage conditions:**

Protect from heat and direct sunlight.

**Storage class**

12

## SECTION 8: Exposure controls/personal protection

**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**

**CAS: 112-57-2 3,6,9-triazaundecamethylenediamine**

Oral DNEL 0.53 mg/kg bw/Tag (ArL)

Dermal DNEL 0.74 mg/kg bw/day (ArL)

Inhalative DNEL 6940 mg/m<sup>3</sup> (ArL)

**PNECs**

**CAS: 112-57-2 3,6,9-triazaundecamethylenediamine**

PNEC 9.73 mg/l (BEL)

0.0068 mg/l (Fresh water)

0.0068 mg/l (Mew)

PNEC 0.343 mg/kg dwt (Sediment)

3.43 mg/kg dwt (Fresh water sediment)

**Additional information:**

The lists that were valid during the compilation were used as basis.

**8.2 Exposure controls**

**Appropriate engineering controls**

No further data; see section 7.

**Individual protection measures, such as personal protective equipment**

**General protective and hygienic measures**

Keep away from food, drink and animal feed.

Remove soiled, soaked clothing immediately.

Wash hands before breaks and at the end of work.

(Contd. on page 5)



BE SURE. BUILD SURE.

Page 5/10

## Safety data sheet according to Regulation (EC) No 1907/2006, Article 31

Printing date 09.03.2024

Version number 31 (replaces version 30)

Revision: 09.03.2024

**Trade name MC-DUR 1177 WV-A - Komponente B**

(Contd. of page 4)

· **Breathing equipment:**

*Avoid contact with eyes and skin.*

*If workplace limit values cannot be complied with by ventilation measures or if rooms cannot be technically ventilated, respiratory protection must be worn: Use combination filter A1-P2 (brown/white) in rooms that cannot be ventilated. If oxygen deficiency is expected, use self-contained breathing apparatus. Observe wearing time limits according to §9 (3) GefStoffV in conjunction with BGR 190.*

· **Hand protection**

*Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation*

· **Material of gloves**

*You can find help with choosing gloves on the website <https://www.bgbau.de/fileadmin/Gisbau/Projekte.pdf>*

*For example, we recommend the Sol-vex 37-900 protective gloves from Ansell GmbH. The breakthrough time of the protective gloves can be found under point 8 "Penetration time of the glove material".*

*The selection of a suitable glove depends not only on the material, but also on other quality features and varies from manufacturer to manufacturer. As the product*

*is a preparation of several substances, the resistance of glove materials cannot be calculated in advance and must therefore be checked before use.*

*Nitrile rubber*

*Recommended material thickness:  $\geq 0.4$  mm*

· **Penetration time of glove material**

*The breakthrough times of the Sol-vex 37-900 protective gloves are around 8 hours.*

*The following applies to all other gloves:*

*The exact breakthrough time must be obtained from the protective glove manufacturer and adhered to.*

*Nitrile rubber*

*Material thickness:  $\geq 0.40$  mm*

*Penetration time:  $\geq 480$  min*

*Butyl rubber:*

*Material thickness:  $\geq 0.5$  mm*

*Penetration time:  $\geq 480$  min*

· **Eye/face protection**

*Tight-fitting safety goggles.*

*Safety goggles.*

· **Body protection:**

*Protective clothing*

*Suitable protective clothing should be worn when working with epoxy resins. In addition to normal work clothing (long trousers, long-sleeved shirt or T-shirt), disposable overalls, aprons, overshoes, sleeve protectors etc. may be necessary depending on the activity. Uncovered areas of skin should be avoided as far as possible, even in hot weather. If the work involves kneeling, the lower leg area should be protected by protective trousers.*

GB

(Contd. on page 6)



BE SURE. BUILD SURE.

## Safety data sheet according to Regulation (EC) No 1907/2006, Article 31

Printing date 09.03.2024

Version number 31 (replaces version 30)

Revision: 09.03.2024

Trade name MC-DUR 1177 WV-A - Komponente B

(Contd. of page 5)

### SECTION 9: Physical and chemical properties

#### · 9.1 Information on basic physical and chemical properties

##### · General Information

· Colour:	Transparent
· Smell:	Characteristic
· Melting point/freezing point:	<0 °C
· Boiling point or initial boiling point and boiling range	100 °C
· Flash point:	Not applicable
· pH	Not determined.
· Viscosity:	
· Kinematic viscosity	Not determined.
· dynamic:	Not determined.
· Solubility	
· Water:	Fully miscible
· Steam pressure at 20 °C:	23 hPa
· Density and/or relative density	
· Density at 20 °C	1.07 g/cm <sup>3</sup>

#### · 9.2 Other information

· Appearance:	
· Form:	Fluid
· Important information on protection of health and environment, and on safety.	
· Self-inflammability:	Product is not selfigniting.
· Explosive properties:	Product is not explosive.

#### · Information with regard to physical hazard classes

· Explosives	Void
· Flammable gases	Void
· Aerosols	Void
· Oxidising gases	Void
· Gases under pressure	Void
· Flammable liquids	Void
· Flammable solids	Void
· Self-reactive substances and mixtures	Void
· Pyrophoric liquids	Void
· Pyrophoric solids	Void
· Self-heating substances and mixtures	Void
· Substances and mixtures, which emit flammable gases in contact with water	Void
· Oxidising liquids	Void
· Oxidising solids	Void
· Organic peroxides	Void
· Corrosive to metals	Void

(Contd. on page 7)



BE SURE. BUILD SURE.

### Safety data sheet according to Regulation (EC) No 1907/2006, Article 31

Printing date 09.03.2024

Version number 31 (replaces version 30)

Revision: 09.03.2024

Trade name MC-DUR 1177 WV-A - Komponente B

(Contd. of page 6)

· **Desensitised explosives**

Void

#### SECTION 10: Stability and reactivity

- **10.1 Reactivity** No further relevant information available.
- **10.2 Chemical stability**
- **Thermal decomposition / 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:** No dangerous decomposition products known

#### SECTION 11: Toxicological information

- **11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008**
  - **Acute toxicity** Based on available data, the classification criteria are not met.
  - **LD/LC50 values that are relevant for classification:**
- |   |      |                     |
|---|------|---------------------|
| <b>CAS: 112-57-2 3,6,9-triazaundecamethylenediamine</b> |      |                     |
| Oral  | LD50 | 2140 mg/kg (rat)    |
| Dermal  | LD50 | 1260 mg/kg (rabbit) |
- **Skin corrosion/irritation** Based on available data, the classification criteria are not met.
  - **Serious eye damage/irritation** Causes serious eye damage.
  - **Respiratory or skin sensitisation** May cause an allergic skin reaction.
  - **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.
  - **11.2 Information on other hazards**

#### · **Endocrine disrupting properties**

CAS: 541-02-6	2,2,4,4,6,6,8,8,10,10-decamethylcyclopentasiloxane	List II
CAS: 556-67-2	octamethylcyclotetrasiloxane	List II; III

GB

(Contd. on page 8)



BE SURE. BUILD SURE.

### Safety data sheet according to Regulation (EC) No 1907/2006, Article 31

Printing date 09.03.2024

Version number 31 (replaces version 30)

Revision: 09.03.2024

Trade name MC-DUR 1177 WV-A - Komponente B

(Contd. of page 7)

#### SECTION 12: Ecological information

· 12.1 Toxicity

· Aquatic toxicity:

CAS: 112-57-2 3,6,9-triazaundecamethylenediamine

EC50/72h	2.1 mg/l (algae)
LC50/96h	420 mg/l (Gup)
EC50/48h	24.1 mg/l (Daphnia magna)

· 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.

· 12.5 Results of PBT and vPvB assessment

· PBT:

Not applicable.

· vPvB:

Not applicable.

· 12.6 Endocrine disrupting properties

For information on endocrine disrupting properties see section 11.

· 12.7 Other adverse effects

· 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.

#### 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.

· Recommended cleaning agent:

Water, if necessary with cleaning agent.

#### SECTION 14: Transport information

· 14.1 UN number or ID number

· ADR, ADN, IMDG, IATA

Void

· 14.2 UN proper shipping name

· ADR, ADN, IMDG, IATA

Void

(Contd. on page 9)





BE SURE. BUILD SURE.

### Safety data sheet according to Regulation (EC) No 1907/2006, Article 31

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**Trade name MC-DUR 1177 WV-A - Komponente B**

(Contd. of page 8)

· <b>14.3 Transport hazard class(es)</b>	
· <b>ADR, ADN, IMDG, IATA</b>	
· <b>Class</b>	Void
· <b>14.4 Packing group</b>	
· <b>ADR, IMDG, IATA</b>	Void
· <b>14.5 Environmental hazards:</b>	
· <b>Marine pollutant:</b>	No
· <b>14.6 Special precautions for user</b>	Not applicable.
· <b>14.7 Maritime transport in bulk according to IMO instruments</b>	Not applicable.
· <b>UN "Model Regulation":</b>	Void

#### SECTION 15: Regulatory information

· **15.1 Safety, health and environmental regulations/ legislation specific for the substance or mixture** No further relevant information available.

· **Poisons Act**

· **Regulated explosives precursors**

None of the ingredients is listed.

· **Regulated poisons**

None of the ingredients is listed.

· **Reportable explosives precursors**

None of the ingredients is listed.

· **Reportable poisons**

None of the ingredients is listed.

· **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**

H302 Harmful if swallowed.  
H312 Harmful in contact with skin.  
H314 Causes severe skin burns and eye damage.  
H317 May cause an allergic skin reaction.  
H318 Causes serious eye damage.  
H411 Toxic to aquatic life with long lasting effects.

(Contd. on page 10)



BE SURE. BUILD SURE.

Page 10/10

## Safety data sheet according to Regulation (EC) No 1907/2006, Article 31

Printing date 09.03.2024

Version number 31 (replaces version 30)

Revision: 09.03.2024

**Trade name MC-DUR 1177 WV-A - Komponente B**

(Contd. of page 9)

· **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 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*

*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 (UK REACH)*

*PNEC: Predicted No-Effect Concentration (UK 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*

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

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

*Skin Sens. 1: Skin sensitisation – Category 1*

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

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

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