



BE SURE. BUILD SURE.

Page 1/9

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

Printing date 24.05.2024

Version number 27


Revision: 24.05.2024

1 Identification of the hazardous chemical and of the supplier

- **Product identifier**
- **Trade name** **MC-DUR GLW - Komponente A**
- **Recommended use of the chemical and restrictions on use** *No further relevant information available.*
- **Application of the substance / the mixture** *Epoxy coating*
- **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**
*Eye Dam. 1 H318 Causes serious eye damage.
Skin Sens. 1 H317 May cause allergic skin reaction.
STOT RE 1 H372 Causes damage to the lung through prolonged or repeated exposure. Route of exposure: Inhalation.*
- **Label elements**
- **GHS label elements** *The product is classified and labelled according to the Globally Harmonised System (GHS).*
- **Hazard pictograms**

GHS05 GHS07 GHS08
- **Signal word** *Danger*
- **Hazard-determining components of labelling:** *Polymer Epoxidharz-Addukt
crystalline silica
Aminpolymer*
- **Hazard statements** *H318 Causes serious eye damage.
H317 May cause allergic skin reaction.
H372 Causes damage to the lung through prolonged or repeated exposure. Route of exposure: Inhalation.*

(Contd. on page 2)

MY



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

Printing date 24.05.2024

Version number 27

Revision: 24.05.2024

Trade name MC-DUR GLW - Komponente A

(Contd. of page 1)

- **Precautionary statements**
 - P260 Do not breathe 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).
 - P363 Wash contaminated clothing before reuse.
- **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:** Resin mixture with colouring agents.
Mixture consisting of the following components.

· **Dangerous components:**

CAS: 14808-60-7	crystalline silica STOT RE 1, H372	10-30%
CAS: 260549-92-6	Polymer Epoxidharz-Addukt Eye Dam. 1, H318	≥3-<10%
CAS: 180583-06-6	Aminpolymer Skin Sens. 1, H317	≥1-<2.5%
CAS: 112-57-2	3,6,9-triazaundecamethylenediamine Skin Corr. 1, H314; Eye Dam. 1, H318; Aquatic Chronic 2, H411; Acute Tox. 4, H302; Acute Tox. 4, H312; Skin Sens. 1, H317	≥0.1-<0.25%

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

4 First-aid measures

- **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.
- **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.

(Contd. on page 3)



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

Printing date 24.05.2024

Version number 27

Revision: 24.05.2024

Trade name **MC-DUR GLW - Komponente A**

(Contd. of page 2)

- **Information for doctor**
- **Most important symptoms and effects, both acute and delayed**

Advice for the doctor: Elementary aid, decontamination, symptomatic treatment.

5 Fire-fighting 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. Dilute with much water.*
- **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** *Open and handle containers with care. Ventilation measures are required in rooms without sufficient air exchange (e.g. closed rooms), because the occupational exposure limit values (see chapter 8) could be exceeded. This must be avoided. Wear suitable personal protective equipment (see section 8). Avoid contact with eyes, skin and clothing. Change contaminated or 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.*

(Contd. on page 4)

MY



BE SURE. BUILD SURE.

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

Printing date 24.05.2024

Version number 27

Revision: 24.05.2024

Trade name MC-DUR GLW - Komponente A

(Contd. of page 3)

- **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.
- **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** 6.1D

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:**

CAS: 14808-60-7 crystalline silica

PEL (Malaysia)	Long-term value: 0.1* mg/m ³ *Pecahan ternafaskan
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· **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 ³ (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.

- **Exposure controls**
- **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.
Avoid contact with eyes and skin.

· **Breathing equipment:** 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/

(Contd. on page 5)



BE SURE. BUILD SURE.

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

Printing date 24.05.2024

Version number 27

Revision: 24.05.2024

Trade name **MC-DUR GLW - Komponente A**

- (Contd. of page 4)
- 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.
- **Protection of hands:** 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: ≥ 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: ≥ 0.40 mm
Penetration time: ≥ 480 min
Butyl rubber:
Material thickness: ≥ 0.5 mm
Penetration time: ≥ 480 min
 - **Eye 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.

MY

(Contd. on page 6)



BE SURE. BUILD SURE.

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

Printing date 24.05.2024

Version number 27

Revision: 24.05.2024

Trade name MC-DUR GLW - Komponente A

(Contd. of page 5)

9 Physical and chemical properties

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

· **General Information**

· **Appearance:**

· Form:	Fluid
· Colour:	Grey
· Smell:	Characteristic

· **pH-value:** Not determined.

· **Change in condition**

· Melting point/freezing point	Not determined
· Initial boiling point and boiling range	100 °C

· **Flash point:** Not applicable

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

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

· **Steam pressure at 20 °C:** 23 hPa

· **Density at 20 °C** 1.4 g/cm³

· **Solubility in / Miscibility with**

· **Water:** Fully miscible

· **Viscosity:**

· **dynamic:** Not determined.

· **kinematic:** Not determined.

· **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

MY

(Contd. on page 7)



BE SURE. BUILD SURE.

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

Printing date 24.05.2024

Version number 27

Revision: 24.05.2024

Trade name MC-DUR GLW - Komponente A

(Contd. of page 6)

11 Toxicological information

- Information on toxicological effects
- Acute toxicity

· LD/LC50 values that are relevant for classification:

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

Oral	LD50	2140 mg/kg (rat)
Dermal	LD50	1260 mg/kg (rabbit)

· Primary irritant effect:

· Serious eye damage or eye irritation

Irritant 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:
Irritant

12 Ecological information

· 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)

· 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.

MY

(Contd. on page 8)



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

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Trade name MC-DUR GLW - Komponente A

(Contd. of page 7)

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:** *Empty contaminated packagings thoroughly. They can be recycled after thorough and proper cleaning.*
- **Recommended cleaning agent:** *Water, if necessary with cleaning agent.*

14 Transportation information

- | | |
|---|-----------------|
| · UN-Number | Void |
| · ADR, ADN, IMDG, IATA | Void |
| · UN proper shipping name | Void |
| · ADR, ADN, IMDG, IATA | Void |
| · Transport hazard class(es) | |
| · ADR, ADN, IMDG, IATA | |
| · Class | Void |
| · Packing group | |
| · ADR, IMDG, IATA | Void |
| · Environmental hazards: | |
| · Marine pollutant: | No |
| · Special precautions for user | Not applicable. |
| · Transport in bulk according to Annex II of Marpol and the IBC Code | Not applicable. |
| · UN "Model Regulation": | Void |

15 Regulatory information

- **Safety, health and environmental regulations/legislation specific for the substance or mixture**
 - **EHS reference list**
- | | |
|---------------|------------------------------------|
| CAS: 112-57-2 | 3,6,9-triazaundecamethylenediamine |
|---------------|------------------------------------|
- **Directive 2012/18/EU**
 - **Named dangerous substances - ANNEX I** *None of the ingredients is listed.*

(Contd. on page 9)

MY



BE SURE. BUILD SURE.

Page 9/9

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

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Version number 27

Revision: 24.05.2024

Trade name MC-DUR GLW - Komponente A

(Contd. of page 8)

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

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

Skin Corr. 1: Skin corrosion or irritation – Category 1

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

Skin Sens. 1: Skin sensitization – Category 1

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

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

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

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