



BE SURE. BUILD SURE.

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

Printing date 15.04.2025



Version number 39

Revision: 15.04.2025

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

- **Product identifier**
- **Trade name** **MC-CarboSolid 1000 - Komponente A**
- **Recommended use of the chemical and restrictions on use** *No further relevant information available.*
- **Application of the substance / the mixture** *Epoxy sealing*
- **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**
  - Skin Irrit. 2 H315 Causes skin irritation.*
  - Skin Sens. 1 H317 May cause allergic skin reaction.*
  - Repr. 1B H360 May damage fertility or the unborn child.*
  - Aquatic Chronic 3 H412 Harmful 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 GHS08
- **Signal word** *Danger*
- **Hazard-determining components of labelling:** *Reaction mass of 2,2'-[methylenebis(2,1-phenyleneoxymethylene)] bis(oxirane) and 2,2'-[methylenebis(4,1-phenyleneoxymethylene)] bis(oxirane) and 2-({2-[4-(oxiran-2-ylmethoxy)benzyl]phenoxy} methyl)oxirane  
Oxirane, mono((C12-14-alkyloxy)methyl)derivatives  
4,4'-Methylenediphenyldiglycidyl ether  
Reaction products of hexane-1,6-diol with 2-(chloromethyl)oxirane (1:2)*

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- **Hazard statements**
  - H315 Causes skin irritation.
  - H317 May cause allergic skin reaction.
  - H360 May damage fertility or the unborn child.
  - H412 Harmful to aquatic life with long lasting effects.
- **Precautionary statements**
  - P261 Avoid breathing dust/fume/ gas/mist/vapours/spray.
  - P280 Wear protective gloves.
  - P281 Use personal protective equipment as required.
  - P362 Take off contaminated clothing and wash before reuse.
  - P363 Wash contaminated clothing before reuse.
  - P405 Store locked up.
- **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:**

CAS: 9003-36-5	Reaction mass of 2,2'-[methylenebis(2,1-phenyleneoxymethylene)]bis(oxirane) and 2,2'-[methylenebis(4,1-phenyleneoxymethylene)]bis(oxirane) and 2-({2-[4-(oxiran-2-ylmethoxy)benzyl]phenoxy}methyl)oxirane Aquatic Chronic 2, H411; Skin Irrit. 2, H315; Skin Sens. 1, H317	≥2.5-<10%
CAS: 1675-54-3	4,4'-Methylenediphenyldiglycidyl ether Aquatic Chronic 2, H411; Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317	≥2.5-<10%
CAS: 68609-97-2	Oxirane, mono((C12-14-alkyloxy)methyl)derivatives Repr. 1B, H360; Skin Irrit. 2, H315; Skin Sens. 1, H317	≥1-<2.5%
CAS: 933999-84-9	Reaction products of hexane-1,6-diol with 2-(chloromethyl)oxirane (1:2) Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317; Aquatic Chronic 3, H412	≥1-<1.5%
CAS: 13463-67-7	Titanium dioxide Carc. 2, H351	<1%

- **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.

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- **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.*
- **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.*
- **Methods and material for containment and cleaning up:** *Collect mechanically.*
- **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*

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BGBau technical data sheet and practical guide for handling epoxy resins.

- **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:** None.
- **Storage class** 6.1C

## 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

**CAS: 68609-97-2 Oxirane, mono((C12-14-alkyloxy)methyl)derivatives**

Dermal	DNEL	0.75 mg/kg bw/day (ArL)
Inhalative	DNEL	0.49 mg/m <sup>3</sup> (ArL)

### · PNECs

**CAS: 68609-97-2 Oxirane, mono((C12-14-alkyloxy)methyl)derivatives**

PNEC	0.00072 mg/l (Mew)	
	0.0072 mg/l (Freshwater)	
PNEC	80.12 mg/kg dwt (Bod)	
	6.677 mg/kg dwt (Sediment)	
	66.77 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/

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**· Protection of hands:**

**· Material of gloves**

**· Penetration time of glove material**

**· Eye protection:**

**· Body protection:**

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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.

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

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

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

Tight-fitting safety goggles.

Safety goggles.

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.

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#### 9 Physical and chemical properties

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

· **General Information**

· **Appearance:**

Form:	Pasty
Colour:	Grey
Smell:	Characteristic

· **pH-value:** Not determined.

· **Change in condition**

Melting point/freezing point	Not determined
Initial boiling point and boiling range	2230 °C

· **Flash point:** 151 °C

· **Ignition temperature:** Product is not selfigniting.

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

· **Steam pressure at 1732 °C:** 13.5 hPa

· **Density** Not determined

· **Solubility in / Miscibility with**

Water: Not miscible or difficult to mix

· **Viscosity:**

dynamic:	Not determined.
kinematic at 20 °C:	5000 s (ISO 6 mm)

· **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

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## 11 Toxicological information

- Information on toxicological effects
- Acute toxicity

· LD/LC50 values that are relevant for classification:

**CAS: 9003-36-5 Reaction mass of 2,2'-[methylenebis(2,1-phenyleneoxymethylene)] bis(oxirane) and 2,2'-[methylenebis(4,1-phenyleneoxymethylene)] bis(oxirane) and 2-({2-[4-(oxiran-2-ylmethoxy)benzyl]phenoxy}methyl) oxirane**

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

**CAS: 1675-54-3 4,4'-Methylenediphenyldiglycidyl ether**

Oral	LD50	11400 mg/kg (rat)
Dermal	LD50	23000 mg/kg (rabbit)
		>2000 mg/kg (rat)

**CAS: 68609-97-2 Oxirane, mono((C12-14-alkyloxy)methyl)derivatives**

Oral	LD50	17100 mg/kg (rat)
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**CAS: 13463-67-7 Titanium dioxide**

Oral	LD50	>5000 mg/kg (rat)
Dermal	LD50	>10000 mg/kg (rabbit)
Inhalative	LC50/4 h	>6.8 mg/l (rat)

- **Primary irritant effect:**
- **Skin corrosion or irritation** Irritant for skin and mucous membranes.
- **Serious eye damage or eye irritation** No irritant effect.
- **Respiratory / skin sensitization** No sensitizing effect known.
- **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
- **CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)** Repr. 1B

## 12 Ecological information

- Toxicity
- Aquatic toxicity:

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LC50/96h >100 mg/l (Daphnia magna)

EC50/96h >100 mg/l (Leucidus idus)

**CAS: 1675-54-3 4,4'-Methylenediphenyldiglycidyl ether**

LC50/72h >11 mg/l (algae)

IC50 >42.6 mg/l (Bak)

LC50/96h 2 mg/l (Oncorhynchus mykiss)

1.3 mg/l (fish)

EC50/48h 2.1 mg/l (daphnia)

1.8 mg/l (Daphnia magna)

ErC50/72h 11 mg/l (Selenastrum capricornutum)

**CAS: 68609-97-2 Oxirane, mono((C12-14-alkyloxy)methyl)derivatives**

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

LC50/96h >5000 mg/l (Oncorhynchus mykiss)

1800 mg/l (Lepomis macrochirus)

EC50 >100 mg/l (BEL)

NOEC 500 mg/l (Pseudokirchneriella subcapitata)

- **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 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.

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#### 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)	Void
· ADR, ADN, IMDG, IATA	Void
· Class	Void
· Packing group	Void
· 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: 1675-54-3	4,4'-Methylenediphenyldiglycidyl ether
CAS: 68609-97-2	Oxirane, mono((C12-14-alkyloxy)methyl)derivatives

· 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

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)

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*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*

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

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

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

*Carc. 2: Carcinogenicity – Category 2*

*Repr. 1B: Reproductive toxicity – Category 1B*

*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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