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

Printing date 15.03.2024 Version number 28 Revision: 15.03.2024

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

· Product identifier

· Trade name MC-CarboSolid 1000 BC - 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 Layer to promote adhesion

Epoxy resin

· 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 Hazards identification

· Classification of the substance or mixture

Acute Tox. 5 H333 May be harmful if inhaled.
Skin Irrit. 2 H315 Causes skin irritation.
Serious eye damage/irritation – Category 2A H319 Causes serious eye irritation.

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

Carc. 2 H351 Suspected of causing cancer. Route of

exposure: Inhalation.

STOT RE 1 H372 Causes damage to the lung through prolonged

or repeated exposure. Route of exposure:

Inhalation.

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



Danger





GHS07 GHS08 GHS09

Signal word

007 011000 0110

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Hazard-determining

components of labelling: epoxide derivates

titanium dioxide crystalline silica

Reaction mass of 2,2'-[methylenebis(4,1-phenyleneoxymethylene)] dioxirane and 2-({2-[4-(oxiran-2-ylmethoxy)benzyl]phenoxy}methyl) oxirane and 2,2'-[methylenebis(2,1-phenyleneoxymethylene)]

dioxirane

Oxirane, mono[(C12-14-alkyloxy)methyl] derivatives

· Hazard statements May be harmful if inhaled.

Causes skin irritation.
Causes serious eye irritation.
May cause an allergic skin reaction.

Suspected of causing cancer. Route of exposure: Inhalation.

Causes damage to the lung through prolonged or repeated

exposure. Route of exposure: Inhalation.
Toxic to aquatic life with long lasting effects.

• Precautionary statements Do not breathe dust/fume/gas/mist/vapours/spray.

Avoid release to the environment.

Wear protective gloves/protective clothing/eye protection/face

protection.

IF INHALED: Call a POISON CENTER/doctor if you feel unwell.
IF IN EYES: Rinse cautiously with water for several minutes.
Remove contact lenses, if present and easy to do. Continue

rinsing.

Store locked up.

· Other hazards

· Results of PBT and vPvB assessment

PBT: Not applicable.vPvB: Not applicable.

3 Composition/information on ingredients

· Chemical characterisation: Mixtures

• **Description:** Mixture consisting of the following components.

· Dangerous comp	· Dangerous components:			
	epoxide derivates	30-60%		
	Aquatic Chronic 2, H411; Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317			
CAS: 14808-60-7	crystalline silica	10-30%		
	STOT RE 1, H372			
	Reaction mass of 2,2'-[methylenebis(4,1-phenyleneoxymethylene)] dioxirane and 2-({2-[4-(oxiran-2-ylmethoxy)benzyl]phenoxy}methyl)	≥10-<25%		
	oxirane and 2,2'-[methylenebis(2,1-phenyleneoxymethylene)] dioxirane			
	Aquatic Chronic 2, H411; Skin Irrit. 2, H315; Skin Sens. 1, H317; Acute Tox. 5, H303; Acute Tox. 5, H313			

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CAS: 68609-97-2	Oxirane, mono[(C12-14-alkyloxy)methyl] derivatives	≥1-<10%
	Skin Irrit. 2, H315; Skin Sens. 1, H317	
CAS: 13463-67-7	titanium dioxide	≥1-<5%
	Carc. 2, H351; Acute Tox. 5, H333	
CAS: 67762-90-7	Hydrophobes Siliziumdioxid, synthetisch, amorph	<2.5%
	Acute Tox. 5, H313	
CAS: 2530-83-8	[3-(2,3-epoxypropoxy)propyl]trimethoxysilane	≥1-<1.5%
	Eye Dam. 1, H318; Acute Tox. 5, H313	
· Additional inform	nation For the wording of the listed hazard phrases refer to se	ction 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.

· Information for doctor

· Most important symptoms and effects, both acute and

delayed

Advice for the doctor: Elementary aid, decontamination,

symptomatic treatment.

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: No special measures required.

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· Methods and material for

containment and cleaning up: Collect mechanically.

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.

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 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.

· 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/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 (USA) Long-term value: 0.05* mg/m³ *resp. dust; 30mg/m3/%SiO2+2

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REL (USA) Long-term value: 0.05* mg/m³

*respirable dust; See Pocket Guide App. A

TLV (USA) Long-term value: 0.025* mg/m³

*respirable particulate matter, A2

BOELV (European Union) Long-term value: 0.1* mg/m³

*respirable fraction

· DNELs

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

Oral DNEL 1 mg/kg bw/Tag (ArL)
Dermal DNEL 1.7 mg/kg bw/day (ArL)
Inhalative DNEL 0.98 mg/m³ (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/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.

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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 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.

9 Physical and chemical properties

· Information on	basic physica	l and chemica	l properties
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· General Information

· Appearance:

Eve protection:

Form: Pasty

Colour: According to product specification

Smell: Characteristic

· pH-value: Not determined.

· Change in condition

Melting point/freezing point: Not determined

Initial boiling point and boiling range: >140 °C

· Flash point: >100 °C

· Auto-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 2.19 g/cm³

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· Solubility in / Miscibility with

Water: Not miscible or difficult to mix

· 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

11 Toxicological information

- · Information on toxicological effects
- · Acute toxicity

· LD/LC50 values that are i	relevant for	classification:
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CAS: 1675-54-3 epoxide derivates

Dermal LD50 23000 mg/kg (rabbit)

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

[methylenebis(2,1-phenyleneoxymethylene)]dioxirane

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

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

LD50 17100 mg/kg (rat) Oral

CAS: 13463-67-7 titanium dioxide

Oral LD50 >5000 mg/kg (rat) LD50 >10000 mg/kg (rabbit) Dermal

Inhalative LC50/4 h >6.8 mg/l (rat)

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			(Contd. of page 7)
CAS: 677	62-90-7 H	ydrophobes Siliziumdioxid, synthetisch, amorph	
Oral	LD50	>5000 mg/kg (rat)	
Dermal	LD50	>2000 mg/kg (rabbit)	
CAS: 253	CAS: 2530-83-8 [3-(2,3-epoxypropoxy)propyl]trimethoxysilane		
Oral	LD50	8030 mg/kg (rat)	
Dermal	LD50	4248 mg/kg (rabbit)	

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

· CMR effects (carcinogenity, mutagenicity and toxicity for

reproduction) Carc. 2

12 Ecological information

· Toxicity

	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)
and 2-({2-[4-(oxiran-2-ylmethoxy)benzyl]phenoxy}methyl)oxirane and 2,2' [methylenebis(2,1-phenyleneoxymethylene)]dioxirane		
	LC50/96h	>100 mg/l (Daphnia magna)
	EC50/96h	>100 mg/l (Leucidus idus)
CAS: 68609-	97-2 Oxiran	e, 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)
CAS: 67762-	90-7 Hydrop	hobes Siliziumdioxid, synthetisch, amorph
Sensitisation	EL50	10000 mg/l (Daphnien)
		(Contd. on page

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			(Contd. of page 8
		LC50/96h	>10000 mg/l (Brachydanio rerio)
Ī	CAS: 2530-8	3-8 [3-(2,3-e	poxypropoxy)propyl]trimethoxysilane
		LC50/96h	55 mg/l (Cyp)
		EC50/48h	473 mg/l (Daphnia magna)
		ErC50/72h	255 mg/l (Scenedesmus subspicatus)

· Persistence and degradability No further relevant information available.

Behaviour in environmental systems:

Bioaccumulative potential
 Mobility in soil
 No further relevant information available.
 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)
· IMDG	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (epoxide derivates), MARINE POLLUTANT
· Transport hazard class(es)	
· ADR	
· Class	9 (M6) Miscellaneous dangerous substances and articles.
· Label	9

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IMDG, IATA	
Class	9 Miscellaneous dangerous substances and articles.
Label	9
Packing group	
ADR, IMDG, IATA	III
Environmental hazards:	
Marine pollutant:	Yes
•	Symbol (fish and tree)
Special marking (ADR):	Symbol (fish and tree)
Special marking (IATA):	Symbol (fish and tree)
Special precautions for user	Warning: Miscellaneous dangerous substances and
	articles.
Kemler Number:	90
EMS Number:	F-A,S-F
Stowage Category	A
Transport in bulk according to Ann	
Marpol and the IBC Code	Not applicable.
Transport/Additional information:	
ADR	
Limited quantities (LQ)	5L
Excepted quantities (ÉQ)	Code: E1
, , , , ,	Maximum net quantity per inner packaging: 30 ml
	Maximum net quantity per outer packaging: 1000 ml
Transport category	3
Tunnel restriction code	(-)
IMDG	
Limited quantities (LQ)	5L
Excepted quantities (EQ)	Code: E1
	Maximum net quantity per inner packaging: 30 ml
	Maximum net quantity per outer packaging: 1000 ml
UN "Model Regulation":	UN 3082 ENVIRONMENTALLY HAZARDOUS
-	SUBSTANCE, LIQUID, N.O.S. (EPOXIDE
	DERIVATES), 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.

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· Seveso category

E2 Hazardous to the Aquatic Environment

· Qualifying quantity (tonnes) for the application of lower-

tier requirements 200 t

Qualifying quantity (tonnes) for the application of upper-

tier requirements 500 t

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. 5: Acute toxicity - Category 5 Skin Irrit. 2: Skin corrosion/irritation - Category 2

Eye Dam. 1: Serious eye damage/eye irritation - Category 1 Eye Irrit. 2: Serious eye damage/eye irritation – Category 2

Serious eye damage/irritation - Category 2A: Serious eye damage/eye irritation -

Category 2A

Skin Sens. 1: Skin sensitisation - Category 1 Carc. 2: Carcinogenicity - Category 2

STOT RE 1: Specific target organ toxicity (repeated exposure) - Category 1 Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard - Category 2

* * Data compared to the previous version altered.