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

Printing date 12.04.2025

Version number 53

Revision: 12.04.2025

Product identifier	
Trade name Recommended use chemical and restric	
use	No further relevant information available.
Application of the s / the mixture	Layer to promote adhesion Epoxy resin
Details of the supple Manufacturer/Suppl	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 departme	nt: msds@mc-bauchemie.de
	e substance or mixture 315 Causes skin irritation.
	319 Causes serious eye irritation.
•	317 May cause allergic skin reaction.
Skin Sens. 1 HS	-
Skin Sens. 1 H3 Carc. 2 H3 Repr. 1B H3	317 May cause allergic skin reaction. 351 Suspected of causing cancer. Route of exposure: Inhalation. 360 May damage fertility or the unborn child.
Skin Sens. 1 H3 Carc. 2 H3 Repr. 1B H3	317 May cause allergic skin reaction. 351 Suspected of causing cancer. Route of exposure: Inhalation. 360 May damage fertility or the unborn child.
Skin Sens. 1 H: Carc. 2 H: Repr. 1B H: STOT RE 1 H:	317 May cause allergic skin reaction. 351 Suspected of causing cancer. Route of exposure: Inhalation. 360 May damage fertility or the unborn child. 372 Causes damage to the lung through prolonged or repeated exposure
Skin Sens. 1H3Carc. 2H3Repr. 1BH3STOT RE 1H3Aquatic Chronic 2H4Label elements	 317 May cause allergic skin reaction. 351 Suspected of causing cancer. Route of exposure: Inhalation. 360 May damage fertility or the unborn child. 372 Causes damage to the lung through prolonged or repeated exposure Route of exposure: Inhalation. 411 Toxic to aquatic life with long lasting effects.
Skin Sens. 1 H: Carc. 2 H: Repr. 1B H: STOT RE 1 H:	 317 May cause allergic skin reaction. 351 Suspected of causing cancer. Route of exposure: Inhalation. 360 May damage fertility or the unborn child. 372 Causes damage to the lung through prolonged or repeated exposure Route of exposure: Inhalation. 411 Toxic to aquatic life with long lasting effects. The product is classified and labelled according to the Globall Harmonised System (GHS).
Skin Sens. 1HCarc. 2HCarc. 18HRepr. 18HSTOT RE 1HAquatic Chronic 2HLabel elementsGHS label elementsHazard pictograms	 317 May cause allergic skin reaction. 351 Suspected of causing cancer. Route of exposure: Inhalation. 360 May damage fertility or the unborn child. 372 Causes damage to the lung through prolonged or repeated exposure Route of exposure: Inhalation. 411 Toxic to aquatic life with long lasting effects. The product is classified and labelled according to the Globall
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Trade name MC-CarboSolid 1000 BC - Komponente A

		(Contd. of page
		((C12-14-alkyloxy)methyl)derivatives
	Titanium dioxic	le
	Quartz sand	
		of 2,2'-[methylenebis(2,1-phenyleneoxymethylen
		nd 2,2'-[methylenebis(4,1-phenyleneoxymethylen
	methyl)oxirane	nd 2-({2-[4-(oxiran-2-ylmethoxy)benzyl]pheno.
· Hazard statements	H315 Causes	
nazaru statements		serious eye irritation.
		se allergic skin reaction.
		ed of causing cancer. Route of exposure: Inhalatio
		nage fertility or the unborn child.
	H372 Causes	damage to the lung through prolonged or repeat
		e. Route of exposure: Inhalation.
		aquatic life with long lasting effects.
· Precautionary statements	P260	Do not breathe dust/fume/gas/mist/ vapou spray.
	P261	Avoid breathing dust/fume/ gas/mist/vapou spray.
	P280	Wear protective gloves / eye protection / fa protection.
	P281	Use personal protective equipment as require
	P305+P351+P	338 IF IN EYES: Rinse cautiously with water
		several minutes. Remove contact lenses
		present and easy to do. Continue rinsing.
	P362	Take off contaminated clothing and wash before reuse.
[.] Other hazards		
· Results of PBT and vPvB as	sessment	
· 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: 1675-54-3	4,4'-Methylenediphenyldiglycidyl ether	30-60%
	Aquatic Chronic 2, H411; Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317	
CAS: 14808-60-7	Quartz sand STOT RE 1, H372	10-30%
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	
	(Cc	ontd. on page 3)



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	(Contd. of page 2)	
CAS: 68609-97-2 Oxirane, mono((C12-14-alkyloxy)methyl)derivatives	≥1-<10%	
Repr. 1B, H360; Skin Irrit. 2, H315; Skin Sens. 1, H317		
CAS: 13463-67-7 Titanium dioxide	≥1-<5%	
Carc. 2, H351		
CAS: 2530-83-8 [3-(2,3-epoxypropoxy)propyl]trimethoxysilane	≥1-<1.5%	
Eye Dam. 1, H318		
Additional information For the wording of the listed hazard phrases refer t	o section 16.	

4 First-aid measures

· Description of first aid meas	ures
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 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
 Environmental precautions:
 No special measures required.

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• Methods and material for	(Contd. of page 3)
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.

Frecautions for safe nationing	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.
 Information about protection 	
	Ensure sufficient air exchange and/or extraction in the working areas. Take precautionary measures to avoid electrostatic discharges.
 Conditions for safe storage, in Storage 	ncluding any incompatibilities
5	
 Requirements to be met by storerooms and containers: Further information about 	No special requirements.
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:

CAS: 14808-60-7 Quartz sand

PEL (Malaysia) Long-term value: 0.1* mg/m³ *Pecahan ternafaskan

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	(Contd. of page
DNELS	mono((C12-14-alkyloxy)methyl)derivatives
Dermal DNEL 0.75 mg/kg	
Inhalative DNEL 0.49 mg/m	(ArL)
PNECs	
	mono((C12-14-alkyloxy)methyl)derivatives
PNEC 0.00072 mg/l (Mew)	
0.0072 mg/l (Freshwa	,
PNEC 80.12 mg/kg dwt (Bo	,
6.677 mg/kg dwt (Se	diment)
66.77 mg/kg dwt (Fre	esh water sediment)
Additional information:	The lists that were valid during the compilation were used as basi
Exposure controls	
Personal protective equipr	nent
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, respirato
	protection must be worn: Use combination filter A1-P2 (brow
	white) in rooms that cannot be ventilated. If oxygen deficiency
	expected, use self-contained breathing apparatus. Observ
	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 glove
	from Ansell GmbH. The breakthrough time of the protective glove
	can be found under point 8 "Penetration time of the glove materia The selection of a suitable glove depends not only on the materia
	but also on other quality features and varies from manufacturer
	manufacturer. As the product
	is a preparation of several substances, the resistance of glow
	materials cannot be calculated in advance and must therefore l
	checked before use.
	Nitrile rubber Recommended material thickness:≥ 0.4 mm
Penetration time of glove	Neconiniciiueu malenai linckness.≥ 0.4 mm
material	The breakthrough times of the Sol-vex 37-900 protective glove
	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. (Contd. on page



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	(Contd. of page 5)
	Nitrile rubber
	Material thickness: \geq 0.40 mm
	Penetration time: \geq 480 min
	Butyl rubber:
	Material thickness: \geq 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.
	lower leg alea should be protected by protective trousers.

Information on basic physical and	d chemical properties	
General Information		
Appearance: 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	
Ignition temperature:	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	
Solubility in / Miscibility with		
Water:	Not miscible or difficult to mix	
Viscosity:		
dynamic:	Not determined.	
kinematic:	Not determined.	



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· 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
- · Conditions to avoid

No dangerous reactions known No further relevant information available. No further relevant information available.

 Incompatible materials:
 Hazardous decomposition products:

No dangerous decomposition products known

11 Toxicological information

- · Information on toxicological effects
- · Acute toxicity

Oral	LD50	11400 mg/kg (rat)
Dermal	LD50	23000 mg/kg (rabbit)
		>2000 mg/kg (rat)
CAS: 900	bis bis	action mass of 2,2'-[methylenebis(2,1-phenyleneoxymethylene) (oxirane) and 2,2'-[methylenebis(4,1-phenyleneoxymethylene) (oxirane) and 2-({2-[4-(oxiran-2-ylmethoxy)benzyl]phenoxy}methyl rane
Oral	LD50	>2000 mg/kg (rat)
Dermal	LD50	>2000 mg/kg (rabbit)
CAS: 686	09-97-2 O	xirane, mono((C12-14-alkyloxy)methyl)derivatives
Oral	LD50	17100 mg/kg (rat)
CAS: 134	63-67-7 Ti	tanium dioxide
Oral	LD50	>5000 mg/kg (rat)
Dermal	LD50	>10000 mg/kg (rabbit)
Inhalative	LC50/4 h	>6.8 mg/l (rat)
CAS: 253	0-83-8 [3-(2,3-epoxypropoxy)propyl]trimethoxysilane
Oral	LD50	8030 mg/kg (rat)
Dermal	LD50	4248 mg/kg (rabbit)



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· Serious eye damage or eye	(Contd. of page 7)
irritation	No irritant effect.
· Respiratory / skin sensitization	No sensitizing effect known.
 Additional toxicological information: 	The product shows the following dangers according to the
momaton.	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, Repr. 1B

12 Ecological information

· Toxicity

· Toxicity	
· Aquatic tox	<icity:< th=""></icity:<>
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: 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
LC50/96h	>100 mg/l (Daphnia magna)
EC50/96h	>100 mg/l (Leucidus idus)
CAS: 68609	9-97-2 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)
CAS: 2530-	83-8 [3-(2,3-epoxypropoxy)propyl]trimethoxysilane
LC50/96h	55 mg/l (Cyp)
EC50/48h	473 mg/l (Daphnia magna)
ErC50/72h	255 mg/l (Scenedesmus subspicatus)
· Persistence	e and degradability No further relevant information available. (Contd. on page 9)

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	(Contd. of page	
Behaviour in environmental	systems:	
Bioaccumulative potential	No further relevant information available.	
Mobility in soil	No further relevant information available.	
Additional ecological inform	nation:	
General notes:	Do not allow product to reach ground water, water bodies sewage system.	
	Danger to drinking water if even small quantities leak into soil.	
Results of PBT and vPvB as		
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: 	Empty contaminated packagings thoroughly. They can be recycled after thorough and proper cleaning.

14 Transportation information

· UN-Number · ADR, IMDG, IATA	UN3082
· UN proper shipping name	
· ADR, IATA	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Epoxide resin)
·IMDG	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Epoxide resin), MARINE POLLUTANT
· Transport hazard class(es)	
ADR	
· Class	9 (M6) Miscellaneous dangerous substances and articles.
·Label	9
· IMDG, IATA	
Class	9 Miscellaneous dangerous substances and articles.
·Label	9
· Packing group	
· ADR, IMDG, IATA	III
	(Contd. on page 10



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· Environmental hazards:	Ma a
· 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 Annex	x II of
Marpol and the IBC Code	Not applicable.
· Transport/Additional information:	
· ADR	
 Limited quantities (LQ) 	5L
 Excepted quantities (EQ) 	Code: E1
	Maximum net quantity per inner packaging: 30 ml
· Transport category	Maximum net quantity per outer packaging: 1000 ml
· Tunnel restriction code	(-)
· IMDG	
· Limited quantities (LQ)	51
· 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 RESIN), 9 III

15 Regulatory information

Safety, health and environmental regulations/legislation specific for the substance or mixture

· EHS reference lis	t	
CAS: 1675-54-3	4,4'-Methylenediphenyldiglycidyl ether	
CAS: 68609-97-2	Oxirane, mono((C12-14-alkyloxy)methyl)derivatives	
 Directive 2012/18 Named dangerou substances - ANI Seveso category 	S	(Contd. on page 11)



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Qualifying quantity (tannaa)	(Contd. of page 1
• Qualifying quantity (tonnes) for the application of lower-	
tier requirements	200 t
· Qualifying quantity (tonnes)	2001
for the application of upper-	500 t
tier requirements	A Chemical Safety Assessment has not been carried out.
Chemical Salety assessment.	A Chemical Salety Assessment has not been carried but.
Other information	
	esent knowledge. However, they shall not constitute a guarantee t d shall not establish a legally valid contractual relationship.
· Department issuing data	
specification sheet:	Environment protection department.
· Contact:	
	RID: Règlement international concernant le transport des marchandis
,	dangereuses par chemin de fer (Regulations Concerning the Internation
	Transport of Dangerous Goods by Rail)
	ICAO: International Civil Aviation Organisation
	ADR: Accord relatif au transport international des marchandises dangereuses proute (European Agreement Concerning the International Carriage of Dangero
	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 Dam. 1: Serious eye damage or eye irritation – Category 1
	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 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.	