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Safety data sheet according to UK REACH

Printing date 14.04.2025 Version number 64 (replaces version 63) Revision: 14.04.2025

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

· 1.1 Product identifier

• Trade name MC-BetoSolid SX - Komponente A

· Article number: 2132

· 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 coating

· 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:

1.4 Emergency telephone

number:

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

Tel.: +1 872 5888271 (MCR)

msds@mc-bauchemie.de

SECTION 2: Hazards identification

· 2.1 Classification of the substance or mixture

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

Skin Irrit. 2 H315 Causes skin irritation.

Eye Irrit. 2 H319 Causes serious eye irritation.
Skin Sens. 1 H317 May cause an allergic skin reaction.

Repr. 1B H360F May damage fertility.

Aquatic Chronic 3 H412 Harmful to aquatic life with long lasting effects.

· 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



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· Signal word

Danger

· Hazard-determining

components of labelling: 4,4'-Methylenediphenyldiglycidyl ether

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

Reaction products of hexane-1,6-diol with 2-(chloromethyl)oxirane

(1:2)

· Hazard statements H315 Causes skin irritation.

H319 Causes serious eve irritation.

H317 May cause an allergic skin reaction.

H360F May damage fertility.

H412 Harmful to aquatic life with long lasting effects.

Avoid breathing dust/fume/gas/mist/vapours/ · Precautionary statements P261

P273 Avoid release to the environment.

Wear protective gloves/protective clothing/eye P280

protection/face protection/hearing 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.

P308+P313 IF exposed or concerned: Get medical advice/

attention.

P405 Store locked up.

· 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 compoi	nents:	
CAS: 1675-54-3	4,4'-Methylenediphenyldiglycidyl ether	
	Aquatic Chronic 2, H411; Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317	
CAS: 100-51-6	Benzyl alcohol	<2.5%
EINECS: 202-859-9	Acute Tox. 4, H302; Acute Tox. 4, H332; Eye Irrit. 2, H319	
CAS: 68609-97-2	Oxirane, mono((C12-14-alkyloxy)methyl)derivatives	≥1-<2.5%
EINECS: 271-846-8	Repr. 1B, H360F; Skin Irrit. 2, H315; Skin Sens. 1, H317	
CAS: 933999-84-9	Reaction products of hexane-1,6-diol with 2-(chloromethyl) oxirane (1:2)	≥0.1-<1%
	Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317; Aquatic Chronic 3, H412	

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

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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.

· 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: Inform respective authorities in case product reaches water or

sewage system.

· 6.3 Methods and material for

containment and cleaning up: Absorb with liquid-binding material (sand, diatomite, acid binders,

universal binders, sawdust).

Ensure adequate ventilation.

· 6.4 Reference to other

sections See Section 7 for information on safe handling

See Section 8 for information on personal protection equipment.

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See Section 13 for information on disposal.

SECTION 7: Handling and storage

· 7.1 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.

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: None. Storage class 6.1C

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: 100	-51-6 B	enzyl alcohol
Oral	DNEL	4 mg/kg bw/Tag (ArL)
		20 mg/kg bw/Tag (Ark)
Dermal	DNEL	8 mg/kg bw/day (ArL)
		40 mg/kg bw/day (Ark)
Inhalative	DNEL	22 mg/m³ (ArL)
		110 mg/m³ (Ark)
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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/m³ (ArL)

PNECs

CAS: 100-51-6 Benzyl alcohol

PNEC 0.527 mg/l (Marine water sediment)

0.1 mg/l (Mew)

1 mg/l (Fresh water sediment)

PNEC 0.456 mg/kg dwt (Bod)

5.27 mg/kg dwt (Fresh water sediment)

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.

· 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.

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.

· 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 (Contd. on page 6)

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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 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.

SECTION 9: Physical and chemical properties

· 9.1 Information on basic physical and chemical properties

· General Information

· Eye/face protection

Colour: Whitish
 Smell: Characteristic
 Melting point/freezing point: Not determined

Boiling point or initial boiling point and

boiling range >200 °C (CAS: 25068-38-6 Propyl -2,2-diphenyl-

4,4'dipropyloxirane polymers and homologues

molecular weight < 700)

· Flash point: 151 °C

PH Not applicable.
Not determined.

· Viscosity:

Kinematic viscositydynamic:Not determined.Not determined.

· Solubility · Water: Not miscible or difficult to mix

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· Steam pressure at 20 °C: <0.1 hPa (CAS: 25068-38-6 Propyl -2,2-diphenyl-

Void

4,4'dipropyloxirane polymers and homologues

molecular weight < 700)

· Density and/or relative density

· Density at 20 °C 2.28 g/cm³

· 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

· Flammable solids
· Self-reactive substances and mixtures
· Pyrophoric liquids
· Pyrophoric solids

Void
Void

· Self-heating substances and mixtures

Substances and mixtures, which emit

flammable gases in contact with water

Oxidising liquids
Oxidising solids
Organic peroxides
Corrosive to metals
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.

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· 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:				
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: 100-51-6 Benzyl alcohol				
Oral	LD50	1230 mg/kg (rat)		
	NOAEL 2nd year study	200 mg/kg (mouse)		
		200 mg/kg (rat)		
Dermal	LD50	2000 mg/kg (rabbit)		
Inhalative	LC50/4 h	>4178 mg/l (rat)		
CAS: 68609-97-2 Oxirane, mono((C12-14-alkyloxy)methyl)derivatives				
Oral	I DEO	17100 mg/kg (rot)		

Oral LD50 17100 mg/kg (rat)

Primary irritant effect:

· Skin corrosion/irritation Causes skin irritation.
· Serious eye damage/irritation Causes serious eye irritation.

· Respiratory or skin

sensitisation May cause an allergic skin reaction.

• Germ cell mutagenicity
• Carcinogenicity

Based on available data, the classification criteria are not met.

Based on available data, the classification criteria are not met.

Reproductive toxicity May damage fertility.

STOT-single exposure
STOT-repeated exposure
STOT-repeated exposure
Aspiration hazard

Based on available data, the classification criteria are not met.
Based on available data, the classification criteria are not met.
Based on available data, the classification criteria are not met.

· 11.2 Information on other hazards

· Endocrine disrupting properties

None of the ingredients is listed.

SECTION 12: Ecological information

· 12.1 Toxicity

· Aquatic toxicity:

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

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

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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: 100-51-6 Benzyl alcohol

IC50/72h | 700 mg/l (algae)

LC50/96h 460 mg/l (Pimephales promelas)

10 mg/l (Lepomis macrochirus)

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)

· 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 The product does not contain substances with endocrine disrupting

properties.

· 12.7 Other adverse effects

· Remark: Harmful to fish

· Additional ecological information:

· General notes: Harmful to aquatic organisms

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.

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· Uncleaned packagings:

• Recommendation: Disposal must be made according to official regulations.

14.1 UN number or ID number ADR, ADN, IMDG, IATA	Void
	Void
14.2 UN proper shipping name ADR, ADN, IMDG, IATA	Void
14.3 Transport hazard class(es)	
ADR, ADN, IMDG, IATA	
Class	Void
14.4 Packing group	
ADR, IMDG, IATA	Void
14.5 Environmental hazards:	
Marine pollutant:	No
14.6 Special precautions for user	Not applicable.
14.7 Maritime transport in bulk accordi	ing to
IMO instruments	Not applicable.

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.

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· 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.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction. H319 Causes serious eye irritation.

H332 Harmful if inhaled. H360F May damage fertility.

H411 Toxic to aquatic life with long lasting effects.H412 Harmful to aquatic life with long lasting effects.

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 Irrit. 2: Skin corrosion/irritation – Category 2

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

Skin Sens. 1: Skin sensitisation – Category 1 Repr. 1B: Reproductive toxicity – Category 1B

Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic

hazard – Category 2

Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic

hazard - Category 3

* Data compared to the previous version altered.