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# Safety data sheet according to UK REACH

Printing date 10.12.2024

Version number 39 (replaces version 38)

Revision: 16.09.2024

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

undertaking	
· 1.1 Product identifier	
<ul> <li>Trade name</li> <li>1.2 Relevant identified uses of Sector of Use</li> </ul>	MC-DUR Zero VK - Komponente A of the substance or mixture and uses advised against SU22 Professional uses: Public domain (administration, education, entertainment, services, craftsmen)
<ul> <li>Application of the substance / the mixture</li> </ul>	Epoxy binder
• 1.3 Details of the supplier of • Manufacturer/Supplier:	the safety data sheet 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
<ul> <li>Informing department:</li> <li>1.4 Emergency telephone number:</li> </ul>	msds@mc-bauchemie.de Tel.: +49 /  (0)700 24112112 (MCR) Tel.: +1 872 5888271 (MCR)

## **SECTION 2: Hazards identification**

## $\cdot$ 2.1 Classification of the substance or mixture

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

	5	5 ( )
Skin Irrit. 2	H315	Causes skin irritation.
Eye Dam. 1	H318	Causes serious eye damage.
Skin Sens. 1	H317	May cause an allergic skin reaction.
Repr. 1B	H360F	May damage fertility.
Aquatic Chronic 2	H411	Toxic to aquatic life with long lasting e

Aquatic Chronic 2 H411 Toxic 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

· Hazard pictograms



· Signal word

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· Hazard-determining		
components of labelling:	epoxide derivates	
	decarboxylating c	ashew nut shell liquid
	Alkyl Glycidyl Ethe	er
	2,4,6-Tris-(1-Pher	nyl-Ethyl) carbolic acid
<ul> <li>Hazard statements</li> </ul>	H315 Causes sk	in irritation.
	H318 Causes se	erious eye damage.
	H317 May cause	e an allergic skin reaction.
	H360F May dama	ge fertility.
	H411 Toxic to ad	quatic life with long lasting effects.
<ul> <li>Precautionary statements</li> </ul>	P261	Avoid breathing dust/fume/gas/mist/vapours/
		spray.
	P280	Wear protective gloves/protective clothing/eye
		protection/face protection/hearing protection.
	P305+P351+P338	3 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).
	P362+P364	Take off contaminated clothing and wash it before reuse.
<ul> <li>Additional information:</li> </ul>	EUH205 Contains	s epoxy constituents. May produce an allergic
	reaction.	
· 2.3 Other hazards		
Results of PBT and vPvB ass	essment	
· PBT:	Not applicable.	
· vPvB:	Not applicable.	

## SECTION 3: Composition/information on ingredients

· 3.2 Mixtures

Description:	Mixture consisting of the following components.	
· Dangerous componer	nts:	
CAS: 1675-54-3 EINECS: 216-823-5	epoxide derivates Aquatic Chronic 2, H411; Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317, EUH205 Specific concentration limits: Skin Irrit. 2; H315: C ≥ 5 % Eye Irrit. 2; H319: C ≥ 5 %	60-80%
CAS: 68609-97-2	Alkyl Glycidyl Ether Repr. 1B, H360F; Skin Irrit. 2, H315; Skin Sens. 1, H317	10-30%
CAS: 8007-24-7 EINECS: 232-355-4	decarboxylating cashew nut shell liquid Eye Dam. 1, H318; Acute Tox. 4, H302; Acute Tox. 4, H312; Skin Irrit. 2, H315; Skin Sens. 1, H317	≥3-<10%
EC number: 701-443-9	Phenol, mono- und distyrolisiert Aquatic Chronic 2, H411; Skin Irrit. 2, H315; Skin Sens. 1A, H317	≥2.5-<5%
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· Additional information	(Contd. of page 2) For the wording of the listed hazard phrases refer to section 16.
SECTION 4: First aid me	easures
• 4.1 Description of first aid m	easures
· 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 symptom	S
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. 5.2 Advise for firefighters
  - No further relevant information available.
- 5.3 Advice for firefighters
   Protective equipment:
- No special measures required.

### SECTION 6: Accidental release measures

<ul> <li>6.1 Personal precautions, protective equipment and</li> </ul>	
emergency procedures 6.2 Environmental	Not required.
precautions:	Inform respective authorities in case product reaches water or sewage system. Dilute with much water.
· 6.3 Methods and material for	
	: Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Ensure adequate ventilation.
<ul> <li>6.4 Reference to other sections</li> </ul>	See Section 7 for information on safe handling

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See Section 8 for information on personal protection equipment. 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.
<ul> <li>Information about protection against explosions and fires:</li> </ul>	Ensure sufficient air exchange and/or extraction in the working areas. Take precautionary measures to avoid electrostatic discharges.
<ul> <li>7.2 Conditions for safe storage</li> <li>Storage</li> <li>Requirements to be met by storerooms and containers:</li> <li>Further information about storage conditions:</li> <li>Storage class</li> </ul>	ge, including any incompatibilities No special requirements. None. 6.1D

### **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: 686	09-97-2	Alkyl Glycidyl Ether	
Dermal	DNEL	0.75 mg/kg bw/day (ArL)	
Inhalative	DNEL	0.49 mg/m³ (ArL)	
PNECs			
CAS: 686	09-97-2	Alkyl Glycidyl Ether	
PNEC 0.0	0072 n	ng/l (Mew)	
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0.0070 man // / Franch	(Contd. of page 4)
0.0072 mg/l (Freshv	
PNEC 80.12 mg/kg dwt (B	,
6.677 mg/kg dwt (S	ediment)
66.77 mg/kg dwt (Fi	resh 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 mea General protective and	sures, such as personal protective equipment
hygienic measures	Keep away from food, drink and animal feed.
nygrenne medear ee	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
nana protocion	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 glove
	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 b
	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: $\geq$ 480 min
	Butyl rubber:
	Material thickness: $\geq 0.5 mm$
	Penetration time: $\geq$ 480 min
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<ul> <li>Eye/face protection</li> </ul>	Tight-fitting safety goggles.
	Safety goggles.
<ul> <li>Body protection:</li> </ul>	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**

General Information	Fluid
Physical state Colour:	Ember coloured
Smell:	Product specific
Odour threshold:	Not determined.
	Not determined.
Melting point/freezing point: Boiling point or initial boiling point and	Not determined
boiling range	>200 °C (CAS: 25069 28 6 Bronul 2.2 dinhanu
	>200 °C (CAS: 25068-38-6 Propyl -2,2-diphenyl 4,4'dipropyloxirane polymers and homologue molecular weight < 700)
Flammability	Not applicable.
Lower and upper explosion limit	
Lower:	Not determined.
Upper:	Not determined.
Flash point:	Not applicable
Auto-ignition temperature:	184 °C (CAS: 25068-38-6 Propyl -2,2-diphenyl 4,4'dipropyloxirane polymers and homologue molecular weight < 700)
Decomposition temperature: pH	Not determined. Mixture reacts violently with water.
	Not determined.
Viscosity:	
Kinematic viscosity	Not determined.
dynamic at 20 °C: Solubility	1100 mPas
Water:	Not miscible or difficult to mix
Partition coefficient n-octanol/water (log	
value)	Not determined.
Steam pressure at 20 °C:	<0.1 hPa (CAS: 25068-38-6 Propyl -2,2-diphenyl
	4,4'dipropyloxirane polymers and homologue molecular weight < 700)
Density and/or relative density	
Density at 20 °C	1.1 g/cm³

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Relative density	Not determined.	
Vapour density	Not determined.	
9.2 Other information		
Appearance:		
Form:	Liquid	
Important information on protection of hea	alth	
and environment, and on safety.		
Self-inflammability:	Product is not selfigniting.	
Explosive properties:	Product is not explosive.	
Change in condition		
Evaporation rate	Not determined.	
Information with regard to physical haz	ard	
classes		
Explosives	Void	
Flammable gases	Void	
Aerosols	Void	
Oxidising gases	Void	
Gases under pressure	Void	
Flammable liquids	Void	
Flammable solids	Void	
Self-reactive substances and mixtures	Void	
Pyrophoric liquids	Void	
Pyrophoric solids	Void	
Self-heating substances and mixtures	Void	
Substances and mixtures, which emit		
flammable gases in contact with water	Void	
Oxidising liquids	Void	
Oxidising solids	Void	
Organic peroxides	Void	
Corrosive to metals	Void	
Desensitised explosives	Void	

# SECTION 10: Stability and reactivity

<ul> <li>10.1 Reactivity</li> <li>10.2 Chemical stability</li> </ul>	No further relevant information available.
<ul> <li>Thermal decomposition /</li> </ul>	
conditions to be avoided: • 10.3 Possibility of hazardous	No decomposition if used according to specifications.
reactions	No dangerous reactions known
10.4 Conditions to avoid	No further relevant information available.
<ul> <li>10.5 Incompatible materials:</li> </ul>	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 epoxide derivates

Dermal LD50 23000 mg/kg (rabbit)

CAS: 68609-97-2 Alkyl Glycidyl Ether

LD50 17100 mg/kg (rat) Oral

- · Primary irritant effect: · Skin corrosion/irritation
- Causes skin irritation. · Serious eye damage/irritation Causes serious eye damage.
- · Respiratory or skin
  - May cause an allergic skin reaction.
- sensitisation · Reproductive toxicity May damage fertility.
- 11.2 Information on other hazards

· Endocrine disrupting properties

None of the ingredients is listed.

## SECTION 12: Ecological information

· 12.1 Toxicity

· Aquatic to	cicity:		
CAS: 1675-	54-3 epoxide deriv	ates	
IC50	>42.6 mg/l (Bak)		
LC50/96h	2 mg/l (Oncorhyncl	hus mykiss)	
EC50/48h	1.8 mg/l (Daphnia ı	magna)	
ErC50/72h	11 mg/l (Selenastru	ım capricornutum)	
CAS: 68609	9-97-2 Alkyl Glycid	yl Ether	
EbC50/72h	843 mg/l (Pseudok	irchneriella subcapitata)	
LC50/96h	>5000 mg/l (Oncor	hynchus mykiss)	
	1800 mg/l (Lepomi	s macrochirus)	
EC50	>100 mg/l (BEL)		
NOEC	500 mg/l (Pseudok	irchneriella subcapitata)	
· 12.2 Persis degradabil · 12.3 Bioaco potential	ity	No further relevant information available. No further relevant information available.	
12.4 Mobili	ty in soil	No further relevant information available.	(Contd. on page 9)



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12.5 Results of PBT and	
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 effect	ts
Remark:	Toxic for fish
Additional ecological info	ormation:
General notes:	Also poisonous for fish and plankton in water bodies.
	Toxic for aquatic organisms
	Do not allow product to reach ground water, water bodies of sewage system.
	Danger to drinking water if even small quantities leak into soil.

## **SECTION 13: Disposal considerations**

<ul> <li>13.1 Waste treatment method</li> <li>Recommendation</li> </ul>	<b>Is</b> Must not be disposed of together with household garbage. Do not allow product to reach sewage system.
<ul> <li>Uncleaned packagings:</li> <li>Recommendation:</li> <li>Recommended cleaning</li> </ul>	Disposal must be made according to official regulations.
agent:	Water, if necessary with cleaning agent.

# **SECTION 14: Transport information**

<ul> <li>14.1 UN number or ID number</li> <li>ADR, IMDG, IATA</li> </ul>	UN3082
<sup>•</sup> 14.2 UN proper shipping name	
· ADR, IATA	ENVIRONMENTALLY HAZARDOUS
	SUBSTANCE, LIQUID, N.O.S. (epoxide derivates
	2,4,6-Tris-(1-Phenyl-Ethyl) carbolic acid)
· IMDG	ENVIRONMENTALLY HAZARDOUS
	SUBSTANCE, LIQUID, N.O.S. (epoxide derivates
	2,4,6-Tris-(1-Phenyl-Ethyl) carbolic acid), MARINE
	POLLUTANT
· 14.3 Transport hazard class(es)	
· ADR	
<sup>.</sup> Class	9 (M6) Miscellaneous dangerous substances and
	articles.
<sup>.</sup> Label	9
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14.4 Packing group	9 Miscellaneous dangerous substances an articles. 9 III
· Class · Label · 14.4 Packing group · ADR, IMDG, IATA	articles. 9
· 14.4 Packing group	
	III
· 14.5 Environmental hazards: · Marine pollutant:	Yes Symbol (fish and tree)
<ul> <li>Special marking (ADR):</li> <li>Special marking (IATA):</li> </ul>	Symbol (fish and tree) Symbol (fish and tree) Symbol (fish and tree)
<sup>.</sup> 14.6 Special precautions for user	Warning: Miscellaneous dangerous substances an articles.
· Kemler Number:	90
EMS Number:	F-A,S-F
· Stowage Category	A
<ul> <li>14.7 Maritime transport in bulk according t IMO instruments</li> </ul>	<b>o</b> Not applicable.
· Transport/Additional information:	
<ul> <li>ADR</li> <li>Limited quantities (LQ)</li> <li>Excepted quantities (EQ)</li> </ul>	5L Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 100
	ml
<ul> <li>Transport category</li> <li>Tunnel restriction code</li> </ul>	3 (-)
· IMDG	
<ul> <li>Limited quantities (LQ)</li> <li>Excepted quantities (EQ)</li> </ul>	5L Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 100 ml
· UN "Model Regulation":	UN 3082 ENVIRONMENTALLY HAZARDOU SUBSTANCE, LIQUID, N.O.S. (EPOXID DERIVATES, 2,4,6-TRIS-(1-PHENYL-ETHYL CARBOLIC ACID), 9, III

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15.1 Safety, health and enviro mixture Poisons Act	onmental regulations/legislation specific for the substance or
Regulated explosives precurs	sors
None of the ingredients is listed	l.
Regulated poisons	
None of the ingredients is listed	l.
Reportable explosives precu	rsors
None of the ingredients is listed	
Reportable poisons	
None of the ingredients is listed	l.
Directive 2012/18/EU	
Named dangerous	
substances - ANNEX I	None of the ingredients is listed.
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
15.2 Chemical safety	
assessment:	A Chemical Safety Assessment has not been carried out.

# **SECTION 16: Other information**

· Relevant phrases	H302	Harmful if swallowed.
•	H312	Harmful in contact with skin.
	H315	Causes skin irritation.
	H317	May cause an allergic skin reaction.
	H318	Causes serious eye damage.
		, ,
	H319	Causes serious eye irritation.
		May damage fertility.
	H411	Toxic to aquatic life with long lasting effects.
	EUH205	Contains epoxy constituents. May produce an allergic
		reaction.
<ul> <li>Abbreviations and acronyms:</li> </ul>	RID: Règ	lement international concernant le transport des marchandises
-	0	ses par chemin de fer (Regulations Concerning the International
	,	of Dangerous Goods by Rail)
		ernational Civil Aviation Organisation
		ord relatif au transport international des marchandises dangereuses par opean Agreement Concerning the International Carriage of Dangerous
	Goods by	
		ernational Maritime Code for Dangerous Goods
		rnational Air Transport Association
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PN LC LD PB VP Ac Sk Ey	EL: Derived No-Effect Level (UK REACH) EC: Predicted No-Effect Concentration (UK REACH) 50: Lethal concentration, 50 percent 50: Lethal dose, 50 percent T: Persistent, Bioaccumulative and Toxic //B: very Persistent and very Bioaccumulative //B: very Persistent and very Bioaccumulative //te Tox. 4: Acute toxicity – Category 4
vP Ac Sk Ey	B: very Persistent and very Bioaccumulative
Ey	n Irrit. 2: Skin corrosion/irritation – Category 2
	e Dam. 1: Serious eye damage/eye irritation – Category 1 e Irrit. 2: Serious eye damage/eye irritation – Category 2
Sk Re	n Sens. 1: Skin sensitisation – Category 1 n Sens. 1A: Skin sensitisation – Category 1A pr. 1B: Reproductive toxicity – Category 1B
	uatic Chronic 2: Hazardous to the aquatic environment - long-term aqua ard – Category 2