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Safety data sheet according to 1907/2006/EC, Article 31

Version number 31 (replaces version 30) Printing date 18.08.2023 Revision: 18.08.2023

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

· 1.1 Product identifier

· Trade name MC-POWERPRO HCR - Komponente A

3161 · Article number:

· 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 Coating Epoxy coating

· 1.3 Details of the supplier of the safety data sheet

MC-Bauchemie Müller GmbH & Co. KG Manufacturer/Supplier:

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.: +48612864565

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.

Eve Irrit. 2 H319 Causes serious eye irritation.

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

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 regulation.

· Hazard pictograms





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· Signal word

Warning

· Hazard-determining

components of labelling:

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)]

epoxide derivates

Epoxyfunktionelles Polymer 1,6-hexene-diglycidylether

· Hazard statements H315 Causes skin irritation.

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

H411 Toxic to aquatic life with long lasting effects.

· Precautionary statements

P261 Avoid breathing dust/fume/gas/mist/vapours/

P273 Avoid release to the environment.

P280 Wear protective gloves / eye protection / face

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.

P333+P313 If skin irritation or rash occurs: Get medical

advice/attention.

P337+P313 If eye irritation persists: Get medical advice/

attention.

· Additional information: Contains epoxy constituents. May produce an allergic reaction.

Warning! Hazardous respirable droplets may be formed when

sprayed. Do not breathe spray or mist.

· 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: Resin mixture with colouring agents.

Mixture consisting of the following components.

Dangerous components:

EC number: 701-263-0 Reaction mass of 2,2'-[methylenebis(4,1-≥25-≤30%

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

dioxirane

Aquatic Chronic 2, H411; Skin Irrit. 2, H315; Skin

Sens. 1, H317

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		(Contd. of page 2
CAS: 1675-54-3	epoxide derivates	≥10-<25%
EINECS: 216-823-5	Aquatic Chronic 2, H411; Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317	
EC number: 953-811-5	Epoxyfunktionelles Polymer Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317; Aquatic Chronic 3, H412	≥10-<25%
CAS: 16096-31-4 EINECS: 240-260-4	1,6-hexene-diglycidylether Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317; Aquatic Chronic 3, H412, EUH205	≥2.5-<10%
EC number: 905-588-0 Reg.nr.: 01-2119488216-32 01-2119486136-34	Reaction mass of ethylbenzene and xylene Flam. Liq. 3, H226; STOT RE 2, H373; Asp. Tox. 1, H304; Acute Tox. 4, H312; Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335	<5%
CAS: 13463-67-7 EINECS: 236-675-5	titanium dioxide Carc. 2, H351	≥1-<5%
CAS: 222417-26-7	Polyacrylate Eye Dam. 1, H318; Aquatic Acute 1, H400; Aquatic Chronic 1, H410; Skin Irrit. 2, H315	≥0.025-<0.25%

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

SECTION 4: First aid measures

· 4.1 Description of first aid measures

• After inhalation Supply fresh air.

After skin contact Instantly wash with water and soap and rinse thoroughly.
 After eye contact Rinse opened eye for several minutes under running water.

Seek medical treatment.

· After swallowing Rinse out mouth and then drink plenty of water.

Seek medical treatment.

· 4.2 Most important symptoms and effects, both acute and

delayed No further relevant information available.

· 4.3 Indication of any

immediate medical attention

and special treatment needed No further relevant information available.

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.

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· 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: Prevent material from reaching sewage system, holes and cellars.

· 6.3 Methods and material for

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

universal binders, sawdust).

· 6.4 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.

SECTION 7: Handling and storage

· 7.1 Precautions for safe

handling Store in cool, dry place in tightly closed containers.

Open and handle container with care.

· Information about protection

against explosions and fires: No special measures required.

· 7.2 Conditions for safe storage, including any incompatibilities

· Storage

· Requirements to be met by

storerooms and containers: No special requirements.

· Information about storage in

one common storage facility: Not required.

· Further information about

storage conditions: Keep container tightly sealed.

· Storage class 10

• 7.3 Specific end use(s) No further relevant information available.

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.

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(Contd. of page 4) · DNELs 16096-31-4 1,6-hexene-diglycidylether DNEL 2.8 mg/kg bw/day (ArL) Dermal Inhalative DNEL 4.9 mg/m³ (ArL) Reaction mass of ethylbenzene and xylene DNEL 1.6 mg/kg bw/Tag (ArL) Oral mg/kg bw/Tag (Workers) Dermal DNEL 180 mg/kg bw/day (ArL) Inhalative DNEL 211 mg/m³ (ArL) · PNECs 16096-31-4 1,6-hexene-diglycidylether PNEC 0.0115 mg/l (Fresh water) 0.00115 mg/l (Mew) PNEC 0.223 mg/kg dwt (Bod) 0.0283 mg/kg dwt (Sediment) 0.283 mg/kg dwt (Fresh water sediment)

CAS No. Designation of material % Type Value Unit

· Additional Occupational Exposure Limit Values for possible hazards during processing:

1330-20-7 xylene

WEL Short-term value: 441 mg/m³, 100 ppm Long-term value: 220 mg/m³, 50 ppm

Sk; BMGV

100-41-4 ethylbenzene

WEL Short-term value: 552 mg/m³, 125 ppm Long-term value: 441 mg/m³, 100 ppm

Sk

· 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

· Material of gloves

hygienic measures Keep away from foodstuffs, beverages and food.

Instantly remove any soiled and impregnated garments. Wash hands during breaks and at the end of the work.

Avoid contact with the eyes and skin.

· Breathing equipment: For spray application, type A2P2 combination filters should be

used.

· Hand protection Protective gloves.

Selection of the glove material on consideration of the penetration

times, rates of diffusion and the degradation

After use of gloves apply skin-cleaning agents and skin cosmetics. The selection of the suitable gloves does not only depend on the

material, but also on further marks of quality and varies from

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manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the

application.

· Penetration time of glove

material The exact break trough time has to be found out by the

manufacturer of the protective gloves and has to be observed.

· Eye/face protection Safety glasses

Tightly sealed safety glasses.

Body protection: Protective work clothing.

SECTION 9: Physical and chemical properties

· 9.1 Information on basic physical and chemical properties

· General Information

· Colour: Pigmented · Smell: Light

· Melting point/freezing point: Not determined

Boiling point or initial boiling point and

boiling range >320 °C (1675-54-3 epoxide derivates)

· Flash point: 65 °C

• Auto-ignition temperature: 455 °C (1675-54-3 epoxide derivates)

· pH at 20 °C

· Viscosity:

• Kinematic viscosity
• dynamic at 20 °C:

Not determined.
36000 mPas

· Solubility

· Water: Not miscible or difficult to mix

· Steam pressure at 20 °C: 0 hPa

· Density and/or relative density

Density at 20 °C 1.3 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

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· 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

· 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
 10.5 Incompatible materials:
 No further relevant information available.

· 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:				
1675-54-3	epoxide (derivates		
Dermal	LD50	23000 mg/kg (rabbit)		
16096-31-	4 1,6-hexe	ene-diglycidylether		
Oral	LD50	>8500 mg/kg (rat)		
Dermal	LD50	>4900 mg/kg (rat)		
Reaction	mass of e	thylbenzene and xylene		
Oral	LD50	3523-4000 mg/kg (rat)		
Dermal	LD50	1100 mg/kg (rabbit)		
Inhalative	LC50/4 h	11 mg/l (rat)		
13463-67-	7 titanium	n dioxide		
Oral	LD50	>10000 mg/kg (rat)		
		(Contd. on pag		



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

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

· Respiratory or skin

sensitisation May cause an allergic skin reaction.

Carcinogenicity
Reproductive toxicity
STOT-single exposure
STOT-repeated exposure
Aspiration hazard

Based on available data, the classification criteria are not met.
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· 11.2 Information on other hazards

· Endocrine disrupting properties

128-37-0 2,6-Di-tert-butyl-p-cresol List II

SECTION 12: Ecological information

· 12.1 Toxicity

· Aquatic toxicity:				
1675-54-3 epoxide derivates				
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)

16096-31-4 1,6-hexene-diglycidylether

LC50/96h | 30 mg/l (Leucidus idus) EC50/48h | 47 mg/l (Daphnia magna)

Reaction mass of ethylbenzene and xylene

EC50/72h | 2.2 mg/l (Selenastrum capricornutum) LC50/96h | 2.6 mg/l (Oncorhynchus mykiss)

NOEC 16 mg/l (BEL)

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:
• vPvB:
Not applicable.
Not applicable.

· 12.6 Endocrine disrupting

propertiesFor information on endocrine disrupting properties see section 11.

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· 12.7 Other adverse effects

· 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.

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.

· Uncleaned packagings:

Empty contaminated packagings thoroughly. They can be recycled · Recommendation:

after thorough and proper cleaning.

14.1 UN number or ID number ADR, IMDG, IATA	UN3082
14.2 UN proper shipping name	
ADR, IATA	ENVIRONMENTALLY HAZARDOU SUBSTANCE, LIQUID, N.O.S. (epoxide derivates)
IMDG	ENVIRONMENTALLY HAZARDOU
	SUBSTANCE, LIQUID, N.O.S. (epoxide derivates
	MARINE POLLUTANT
14.3 Transport hazard class(es)	
ADR	
Class	9 (M6) Miscellaneous dangerous substances an
Label	articles. 9
IMDG, IATA Class	9 Miscellaneous dangerous substances an
Class	articles.
Label	9
14.4 Packing group	
ADR, IMDG, IATA	III
14.5 Environmental hazards:	
Marine pollutant:	Yes
	Symbol (fish and tree)
Special marking (ADR): Special marking (IATA):	Symbol (fish and tree) Symbol (fish and tree)



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14.6 Special precautions for user	Warning: Miscellaneous dangerous substances an articles.
Kemler Number:	90
EMS Number:	F-A,S-F
Stowage Category	A
14.7 Maritime transport in bulk accord	ling to
IMO instruments	Not applicable.
Transport/Additional information:	
ADR	
Limited quantities (LQ)	5L
Excepted quantities (EQ)	Code: E1
	Maximum net quantity per inner packaging: 30 ml
	Maximum net quantity per outer packaging: 100 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: 100 ml
UN "Model Regulation":	UN 3082 ENVIRONMENTALLY HAZARDOU
	SUBSTANCE, LIQUID, N.O.S. (EPOXID

SECTION 15: Regulatory information

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

DERIVATES), 9, III

- · Directive 2012/18/EU
- 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

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.

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(Contd. of page 10) · Relevant phrases H226 Flammable liquid and vapour. H304 May be fatal if swallowed and enters airways. 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. H332 Harmful if inhaled. H335 May cause respiratory irritation. H351 Suspected of causing cancer. H373 May cause damage to organs through prolonged or repeated exposure. H400 Very toxic to aquatic life. H410 Very toxic to aquatic life with long lasting effects. H411 Toxic to aquatic life with long lasting effects. H412 Harmful to aquatic life with long lasting effects. EUH205 Contains epoxy constituents. May produce an allergic reaction. · 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 Flam. Liq. 3: Flammable liquids - Category 3

Acute Tox. 4: Acute toxicity - Category 4 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

Skin Sens. 1: Skin sensitisation - Category 1

Carc. 2: Carcinogenicity - Category 2

STOT SE 3: Specific target organ toxicity (single exposure) - Category 3 STOT RE 2: Specific target organ toxicity (repeated exposure) - Category 2

Asp. Tox. 1: Aspiration hazard - Category 1

Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard -

Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard - Category 1

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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.