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# Safety data sheet according to UK REACH

Printing date 15.04.2025 Version number 46 (replaces version 45) Revision: 15.04.2025

# 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:

number:

· 1.4 Emergency telephone

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.

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(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

4.4'-Methylenediphenyldiglycidyl ether Polymer with epoxy-functional groups

1,6-hexene-diglycidylether

H315 Causes skin irritation. · Hazard statements

> 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.

P332+P313 If skin irritation occurs: Get medical advice/

attention.

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

advice/attention.

· Additional information: EUH205 Contains epoxy constituents. May produce an allergic

reaction.

EUH211 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:

CAS: 9003-36-5 Reaction mass of 2,2'-[methylenebis(2,1-≥25-≤30%

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

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CAS: 1675-54-3	4,4'-Methylenediphenyldiglycidyl ether	ontd. of page 2 <i>≥10-</i> <25%
	Aquatic Chronic 2, H411; Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317	
EC number: 953-811-5	Polymer with epoxy-functional groups	≥10-<25%
	Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317; Aquatic Chronic 3, H412	
CAS: 16096-31-4	1,6-hexene-diglycidylether	<i>≥</i> 2.5-<10%
EINECS: 240-260-4	Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317; Aquatic Chronic 3, H412, EUH205	
EC number: 905-588-0	Reaction mass of ethylbenzene and xylene	<5%
Reg.nr.: 01-2119488216-32 01-2119486136-34	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	
CAS: 13463-67-7	Titanium dioxide	≥1-<5%
EINECS: 236-675-5	Carc. 2, H351	

## **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

in case of contact with skin, wash carefully with pienty 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.

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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 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: Keep container tightly closed in a well-ventilated place.

Storage class 10

GB



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### 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: 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

CAS: 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:

### CAS: 1330-20-7 xylene

WEL | Short-term value: 441 mg/m³, 100 ppm

Long-term value: 220 mg/m³, 50 ppm

Sk; BMGV

### CAS: 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

Keep away from food, drink and animal feed. hygienic measures

Remove soiled, soaked clothing immediately.

Wash hands before breaks and at the end of work.

Avoid contact with eyes and skin.

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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 checked before use.

Nitrile rubber

Recommended material thickness:≥ 0.4 mm

· Penetration time of glove material

· Eye/face protection

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.

Protective clothing · Body protection:

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.



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### 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 (CAS: 1675-54-3 4,4'

Methylenediphenyldiglycidyl ether)

Flash point: 65 °C

• Auto-ignition temperature: 455 °C (CAS: 1675-54-3 4,4'-

Methylenediphenyldiglycidyl ether)

· pH at 20 °C

Viscosity:

Kinematic viscositydynamic at 20 °C:Not determined.36000 mPas

Solubility

· Water: Not miscible or difficult to mix

• Steam pressure at 20 °C: 0 h P a (CAS: 1675-54-3 4,4'-

Void

Void

Methylenediphenyldiglycidyl ether)

· Density and/or relative density

Density at 20 °C 1.3 g/cm<sup>3</sup>

· 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

· Oxidising liquids

Oxidising solids

Void Explosives · 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

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· 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:

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

	OXI	rane	
Oral	LD50	>2000 mg/kg (rat)	
Dermal	LD50	>2000 mg/kg (rabbit)	
CAS: 167	5-54-3 4,4	-Methylenediphenyldiglycidyl ether	
Oral	LD50	11400 mg/kg (rat)	
Dermal	LD50	23000 mg/kg (rabbit)	
		>2000 mg/kg (rat)	
CAS: 16096-31-4 1,6-hexene-diglycidylether			
Oral	LD50	>8500 mg/kg (rat)	
Dermal	LD50	>4900 mg/kg (rat)	
Reaction mass of ethylbenzene and xylene			
Oral	LD50	3523-4000 mg/kg (rat)	
Dermal	LD50	1100 mg/kg (rabbit)	
Inhalative	LC50/4 h	11 mg/l (rat)	
CAS: 13463-67-7 Titanium dioxide			
Oral	LD50	>5000 mg/kg (rat)	

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List II

Dermal LD50 >10000 mg/kg (rabbit)
Inhalative LC50/4 h >6.8 mg/l (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
 Reproductive toxicity
 STOT-single 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.
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· 11.2 Information on other hazards

Endocrine disrupting properties

CAS: 128-37-0 2,6-Di-tert-butyl-p-cresol

## **SECTION 12: Ecological information**

· 12.1 Toxicity

· Aquatic toxicity:

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: 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: 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)

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· 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 Not applicable. · PBT: · vPvB: Not applicable.

· 12.6 Endocrine disrupting

properties For information on endocrine disrupting properties see section 11.

12.7 Other adverse effects

· Additional ecological information:

Do not allow product to reach ground water, water bodies or · General notes:

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:

Recommendation: Empty contaminated packagings thoroughly. They can be recycled

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 resin)
IMDG	ENVIRONMENTALLY HAZARDOU SUBSTANCE, LIQUID, N.O.S. (Epoxide resin MARINE POLLUTANT
14.3 Transport hazard class(es)	
ADR	
Class	<ol><li>9 (M6) Miscellaneous dangerous substances an articles.</li></ol>
Label	9
IMDG, IATA	
Class	<ol> <li>Miscellaneous dangerous substances an articles.</li> </ol>





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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)
· 14.6 Special precautions for user	Warning: Miscellaneous dangerous substances an articles.
· Kemler Number: · EMS Number: · Stowage Category	90 F-A,S-F A
· 14.7 Maritime transport in bulk accordi IMO instruments	ing to Not applicable.
Transport/Additional information:	
· ADR · Limited quantities (LQ) · Excepted quantities (EQ)	5L Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 100 ml
· Transport category · Tunnel restriction code	3 (-)
·IMDG	
· Limited quantities (LQ) · Excepted quantities (EQ)	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. (EPOXIDE RESIN 9, III

# **SECTION 15: Regulatory information**

- · 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
- · Poisons Act
- · Regulated explosives precursors

None of the ingredients is listed.

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Reg			

None of the ingredients is listed.

#### Reportable explosives precursors

None of the ingredients is listed.

#### · Reportable poisons

None of the ingredients is listed.

- Directive 2012/18/EU
- Qualifying quantity (tonnes) for the application of lower-

tier requirements 200 t

Qualifying quantity (tonnes) for the application of uppertier requirements

· 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 H226 Flammable liquid and vapour.

500 t

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.

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.

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

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 (Contd. on page 13)



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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 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 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

GB

<sup>\*</sup> Data compared to the previous version altered.