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

Printing date 15.04.2025 Version number 46 Revision: 15.04.2025

1 Identification of the hazardous chemical and of the supplier

· Product identifier

• Trade name MC-POWERPRO HCR - Komponente A

Recommended use of the chemical and restrictions on

use

No further relevant information available.

Application of the substance

/ the mixture

Coating Epoxy coating

· 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: msds@mc-bauchemie.de

2 Hazard identification

· Classification of the substance or mixture

Skin Irrit. 2 H315 Causes skin irritation.

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

Carc. 2 H351 Suspected of causing cancer. Route of exposure: Inhalation.

Aquatic Chronic 2 H411 Toxic to aquatic life with long lasting effects.

· Label elements

· GHS label elements The product is classified and labelled according to the Globally

Harmonised System (GHS).

· Hazard pictograms







GHS07 GHS08 GHS09

· 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

Reaction mass of ethylbenzene and xylene

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Titanium dioxide

4,4'-Methylenediphenyldiglycidyl ether Polymer with epoxy-functional groups

1,6-hexene-diglycidylether

· Hazard statements H315 Causes skin irritation.

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

H351 Suspected of causing cancer. Route of exposure: Inhalation.

H411 Toxic to aquatic life with long lasting effects.

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

spray.

P280 Wear protective gloves / eye protection / face

protection.

P281 Use personal protective equipment as required. P305+P351+P338 IF IN EYES: Rinse cautiously with water for

several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P362 Take off contaminated clothing and wash before

reuse.

P363 Wash contaminated clothing before reuse.

· Other hazards

· Results of PBT and vPvB assessment · PBT: Not applicable.

· **vPvB:** Not applicable.

3 Composition and information of the ingredients of the hazardous chemical

· Chemical characterisation: Mixtures

• **Description:** Resin mixture with colouring agents.

Mixture consisting of the following components.

· Dangerous com	oonents:	
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	≥25-≤30%
CAS: 1675-54-3	4,4'-Methylenediphenyldiglycidyl ether Aquatic Chronic 2, H411; Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317	≥10-<25%
	Polymer with epoxy-functional groups Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317; Aquatic Chronic 3, H412	≥10-<25%

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	(C	ontd. of page 2)
CAS: 16096-31-4	1,6-hexene-diglycidylether	≥2.5-<10%
	Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317; Aquatic Chronic 3, H412	
	Reaction mass of ethylbenzene and xylene	<5%
	Flam. Liq. 3, H226; STOT RE 2, H373; Asp. Haz., 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%
	Carc. 2, H351	
· Additional inform	nation For the wording of the listed hazard phrases refer to se	ection 16

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

4 First-aid measures

· After skin contact

· 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.

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

Rinse mouth with water. Never give anything by mouth to an · After swallowing

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

Not required.

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• Environmental precautions: Prevent material from reaching sewage system, holes and cellars.

· Methods and material for

containment and cleaning up: 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.

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.

· 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

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: 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	\$		
CAS: 1	1609	6-31-4	1,6-hexene-diglycidylether
Derma	I L	DNEL	2.8 mg/kg bw/day (ArL)
Inhalati	ive [DNEL	4.9 mg/m³ (ArL)
Reacti	on n	nass o	f ethylbenzene and xylene
Oral		DNEL	1.6 mg/kg bw/Tag (ArL)
			mg/kg bw/Tag (Workers)
Derma	I L	DNEL	180 mg/kg bw/day (ArL)
Inhalati	ive [DNEL	211 mg/m³ (ArL)
PNECS	S		
CAS: 1	1609	6-31-4	1,6-hexene-diglycidylether
PNEC	0.01	115 mg	/l (Fresh water)
	0.00	0115 m	ng/l (Mew)
PNEC	0.22	23 mg/l	kg dwt (Bod)
	0.02	283 mg	r/kg dwt (Sediment)
	0.28	33 mg/	kg dwt (Fresh water sediment)
Additio	onal	Осси	pational Exposure Limit Values for possible hazards during processing:
CAS: 1	1330-	-20-7 x	cylene
PEL (N	1alay	rsia) L	ong-term value: 434 mg/m³, 199 ppm
CAS: 1	100-4	11-4 et	hyl benzene
PEL (Malaysia) Long-term value: 434 mg/m³, 100 ppm			

Additional information:

The lists that were valid during the compilation were used as basis.

· Exposure controls

· 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.

· 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 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, (Contd. on page 6)



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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

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.

9 Physical and chemical properties

· Information on basic physical and chemical properties

· General Information

· Appearance:

· Eye protection:

Form: Fluid Colour: Pigmented Light · Smell:

· pH-value at 20 °C:

· Change in condition

Not determined Melting point/freezing point

Initial boiling point and boiling range >320 °C

· Flash point: 65 °C

455 °C · Auto-ignition temperature

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Ignition temperature:	Product is not selfigniting.	
Explosive properties:	Product is not explosive.	
Steam pressure at 20 °C:	0 hPa	
Density at 20 °C	1.3 g/cm³	
Solubility in / Miscibility with Water:	Not miscible or difficult to mix	
Viscosity: dynamic at 20 °C: kinematic:	36000 mPas Not determined.	
Other information	No further relevant information available.	

10 Stability and reactivity

Reactivity

· Chemical stability

Thermal decomposition /

conditions to be avoided:

· Possibility of hazardous

reactions

· Conditions to avoid · Incompatible materials:

· Hazardous decomposition

products:

No further relevant information available.

No decomposition if used according to specifications.

No dangerous reactions known

No further relevant information available. No further relevant information available.

No dangerous decomposition products known

11 Toxicological information

- · Information on toxicological effects
- · Acute toxicity
- · 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

	Oxidate				
Oral	LD50	>2000 mg/kg (rat)			
Derm	al LD50	>2000 mg/kg (rabbit)			
CAS:	CAS: 1675-54-3 4,4'-Methylenediphenyldiglycidyl ether				
Oral	LD50	11400 mg/kg (rat)			
Derm	al LD50	23000 mg/kg (rabbit)			
		>2000 mg/kg (rat)			

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CAS: 160	96-31-4 1,	6-hexene-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)
CAS: 134	CAS: 13463-67-7 Titanium dioxide	
Oral	LD50	>5000 mg/kg (rat)
Dermal	LD50	>10000 mg/kg (rabbit)
Inhalative	LC50/4 h	>6.8 mg/l (rat)

· Primary irritant effect:

· Skin corrosion or irritation

Irritant for skin and mucous membranes.

Sensitization possible by skin contact.

· Serious eye damage or eye

irritation

No irritant effect.

· Respiratory / skin

sensitization

· Additional toxicological

information:

The product shows the following dangers according to the 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

12 Ecological information

· 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)

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	1.8 mg/l (Daphnia magna)			
ErC50/72h	11 mg/l (Selenastrum capricornutum)			
CAS: 1609	CAS: 16096-31-4 1,6-hexene-diglycidylether			
LC50/96h	30 mg/l (Leucidus idus)			
EC50/48h	47 mg/l (Daphnia magna)			
Reaction n	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)			

· Persistence and degradability No further relevant information available.

· Behaviour in environmental systems:

Bioaccumulative potential
 Mobility in soil
 No further relevant information available.
 No further relevant information available.

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.

Results of PBT and vPvB assessment
 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

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Transport hazard class(es)	
ADR	
Class	9 (M6) Miscellaneous dangerous substances an articles.
Label	9
IMDG, IATA	
Class	9 Miscellaneous dangerous substances and articles.
Label	9
Packing group	
ADR, IMDG, IATA	III
Environmental hazards:	
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 an
	articles.
Kemler Number:	90
EMS Number:	F-A,S-F
Stowage Category	A
Transport in bulk according to Anna	
Marpol and the IBC Code	Not applicable.
Transport/Additional information:	
ADR	
Limited quantities (LQ)	5L
Excepted quantities (ÉQ)	Code: E1
	Maximum net quantity per inner packaging: 30 ml
	Maximum net quantity per outer packaging: 1000 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: 1000 ml
UN "Model Regulation":	UN 3082 ENVIRONMENTALLY HAZARDOU
	SUBSTANCE, LIQUID, N.O.S. (EPOXIDE RESIN),



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15 Regulatory information

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

· EHS reference list

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

· 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-

200 t tier requirements

Qualifying quantity (tonnes) for the application of upper-

tier requirements 500 t

• Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

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.

· Department issuing data

Environment protection department. specification sheet:

· Contact:

· 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

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 Flam. Liq. 3: Flammable liquids - Category 3 Acute Tox. 4: Acute toxicity - oral - Category 4 Skin Irrit. 2: Skin corrosion or irritation - Category 2

Eye Irrit. 2: Serious eye damage or eye irritation – Category 2

Skin Sens. 1: Skin sensitization - 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

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Asp. Haz.: Aspiration hazard – Category 1

Aquatic Chronic 2: Hazardous to the aquatic environment - chronic hazard -

Category 2

Aquatic Chronic 3: Hazardous to the aquatic environment - chronic hazard —

Category 3

* Data compared to the previous version altered.

MY