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

Printing date 24.10.2021 Version number 11 Revision: 18.10.2021

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

· Product identifier

• Trade name MC-POWERPRO HCR - Komponente B

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

Hardening agent/ Curing agent

· 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

Emergency telephone

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

Tel.: +48612864565

## 2 Hazards identification

· Classification of the substance or mixture

Acute Tox. 4 H302 Harmful if swallowed.

Acute Tox. 5 H313 May be harmful in contact with skin.

Acute Tox. 5 H333 May be harmful if inhaled.

Skin Corr. 1B H314 Causes severe skin burns and eye damage.

Eye Dam. 1 H318 Causes serious eye damage. Skin Sens. 1 H317 May cause an allergic skin reaction.

Aquatic Chronic 3 H412 Harmful 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



GHS05 GHS07

· **Signal word** Danger

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Hazard-determining

components of labelling: Benzvl alcohol

3-aminomethyl-3,5,5-trimethylcyclohexylamine

Amine polymer

3.6.9-triazaundecamethylenediamine *m*-phenylenebis(methylamine)

2,4,6-Tris-(1-Phenyl-Ethyl) carbolic acid

3,6-diazaoctanethylenediamin

Harmful if swallowed. · Hazard statements

May be harmful in contact with skin.

May be harmful if inhaled.

Causes severe skin burns and eye damage.

May cause an allergic skin reaction.

Harmful to aquatic life with long lasting effects.

Do not breathe dusts or mists. · Precautionary statements

IF ON SKIN (or hair): Take off immediately all contaminated

clothing. Rinse skin with water/shower.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue

rinsing.

Immediately call a POISON CENTER/doctor.

Specific treatment (see on this label).

Take off contaminated clothing and wash it before reuse.

· Other hazards

· Results of PBT and vPvB assessment

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

#### 3 Composition/information on ingredients

· Chemical characterisation: Mixtures

· Description: Binding agent with colouring agents.

Mixture consisting of the following components.

100-51-6	Benzyl alcohol	25-50%
	Acute Tox. 4, H302; Acute Tox. 4, H332	
2855-13-2	3-aminomethyl-3,5,5-trimethylcyclohexylamine	≥5-<25%
	Skin Corr. 1B, H314; Eye Dam. 1, H318; Acute Tox. 4, H302; Acute Tox. 4, H312; Skin Sens. 1, H317; Aquatic Chronic 3, H412	-
	Amine polymer	≥10-<25%
	Eye Dam. 1, H318; Skin Irrit. 2, H315; Skin Sens. 1B, H317	
	Amine polymer	≥10-<25%
	Eye Dam. 1, H318; Skin Irrit. 2, H315; Skin Sens. 1B, H317	
112-57-2	3,6,9-triazaundecamethylenediamine	≥5-<10%
	Skin Corr. 1B, H314; Aquatic Chronic 2, H411; Acute Tox. 4, H302; Acute Tox. 4, H312; Skin Sens. 1, H317	-



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		(Contd. of page 2)
1477-55-0	m-phenylenebis(methylamine)	≥2.5-<3%
	Skin Corr. 1B, H314; Acute Tox. 4, H302; Skin Sens. 1, H317; Aquatic Acute 3, H402; Aquatic Chronic 3, H412	
69-72-7	salicylic acid	≥1-<1.5%
	Repr. 2, H361; Eye Dam. 1, H318; Acute Tox. 4, H302	
61788-44-1	2,4,6-Tris-(1-Phenyl-Ethyl) carbolic acid	≥0.25-<0.5%
	Aquatic Chronic 2, H411; Skin Irrit. 2, H315; Skin Sens. 1, H317; Aquatic Acute 2, H401	
112-24-3	3,6-diazaoctanethylenediamin	≥0.1-<0.5%
	Skin Corr. 1B, H314; Acute Tox. 4, H312; Skin Sens. 1, H317; Aquatic Chronic 3, H412	
· Additional	information For the wording of the listed hazard phrases refer to	section 16

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

### 4 First aid measures

· Description of first aid measures

General information Seek medical treatment.

Instantly remove any clothing soiled by the product.

Supply fresh air; consult doctor in case of symptoms.

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 Drink copious amounts of water and provide fresh air. Instantly call

for doctor.

· Information for doctor

 Most important symptoms and effects, both acute and

**delayed** No further relevant information available.

Indication of any immediate medical attention and special

treatment needed No further relevant information available.

### 5 Firefighting 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: Put on breathing apparatus.

#### 6 Accidental release measures

Personal precautions, protective equipment and emergency procedures

Wear protective equipment. Keep unprotected persons away.

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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). Use neutralising agent.

Dispose of contaminated material as waste according to item 13.

Ensure adequate ventilation.

· 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 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.

· 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.

· **Specific end use(s)** No further relevant information available.

#### 8 Exposure controls/personal protection

· Additional information about

design of technical systems: No further data; see item 7.

· Control parameters

· Components with critical values that require monitoring at the workplace:

100-51-6 Benzyl alcohol

WEEL (USA) Long-term value: 10 ppm

112-57-2 3,6,9-triazaundecamethylenediamine

WEEL (USA) Long-term value: 5 mg/m3

Skin; DSEN

1477-55-0 m-phenylenebis(methylamine)

REL (USA) Ceiling limit: 0.1 mg/m<sup>3</sup>

Skin

TLV (USA) Ceiling limit: 0.018 ppm

Skin

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112-24	-3 3.6-dia	nzaoctanethylenediamin	Contd. of p
		ong-term value: 6 mg/m³, 1 ppm	
,		kin	
DNELs	;		
100-51	-6 Benzy	l alcohol	
Oral		. 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)	
Inhalati	ive DNEL	22 mg/m³ (ArL)	
		110 mg/m³ (Ark)	
2855-1	3-2 3-am	inomethyl-3,5,5-trimethylcyclohexylamine	
Oral	DNEL	. 0.526 mg/kg bw/Tag (ArL)	
Inhalati	ive DNEL	.   20.1 mg/m³ (ArL)	
112-57	-2 3,6,9-ti	riazaundecamethylenediamine	
Oral	DNEL	. 0.53 mg/kg bw/Tag (ArL)	
Dermal	DNEL	. 0.74 mg/kg bw/day (ArL)	
Inhalati	ive DNEL	.   6940 mg/m³ (ArL)	
1477-5	5-0 m-ph	enylenebis(methylamine)	
Dermal	DNEL	. 0.33 mg/kg bw/day (Workers)	
Inhalati	ive DNEL	. 1.2 mg/m³ (Workers)	
PNECs	;		
100-51	-6 Benzy	l alcohol	
PNEC	0.527 mg	n/l (Marine water sediment)	
	0.1 mg/l (	(Mew)	
	1 mg/l (F	resh water sediment)	
PNEC	0.456 mg	n/kg dwt (Bod)	
	5.27 mg/l	kg dwt (Fresh water sediment)	
		inomethyl-3,5,5-trimethylcyclohexylamine	
	0.006 mg		
	0.06 mg/l		
	•	n/kg dwt (Sediment)	
5.784 mg		n/kg dwt (Fresh water sediment)	
		riazaundecamethylenediamine	
	9.73 mg/l	•	
		ng/l (Fresh water)	
		ng/I (Mew)	
	-	n/kg dwt (Sediment)	
	3.43 mg/l	kg dwt (Fresh water sediment)	

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1477-55-0 m-phenylenebis(methylamine)

PNEC 10 mg/l (Kla)

0.009 mg/l (Mew)

0.094 mg/l (Suw)

PNEC 0.045 mg/kg dwt (Bod)

0.43 mg/kg dwt (Marine water sediment) 0.43 mg/kg dwt (Fresh water sediment)

· 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 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.

· Protection of hands: 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.

• Material of gloves The selection of the suitable gloves does not only depend on the

material, but also on further marks of quality and varies from 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 protection: Safety glasses

Tightly sealed safety glasses.

· Body protection: Protective work clothing.

### 9 Physical and chemical properties

· Information on basic physical and chemical properties

· General Information

· Appearance:

Form: Fluid Colour: Transparent Amine-like

· Change in condition

Melting point/freezing point: Not determined

Initial boiling point and boiling range: 205 °C

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Flash point:	>100 °C
Ignition temperature:	380 °C
Self-inflammability:	Product is not selfigniting.
Explosive properties:	Product is not explosive.
Critical values for explosion: Lower: Upper:	1.3 Vol % 13.0 Vol %
Steam pressure at 20 °C:	0.1 hPa
Density at 20 °C	1.06 g/cm³
Solubility in / Miscibility with Water:	Not miscible or difficult to mix
Other information	No further relevant information available.

# 10 Stability and reactivity

Reactivity No further relevant information available.

· Chemical stability

Thermal decomposition /

conditions to be avoided:

· Possibility of hazardous

reactions

· Conditions to avoid

· Incompatible materials:

products:

· Hazardous decomposition

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:			
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)	
2855-13-2 3-aminomethyl-3,5,5-trimethylcyclohexylamine			
Oral	LD50	1030 mg/kg (rat)	
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	NOAEL	250 mg/kg (rat)	
Dermal	LD50	1840 mg/kg (rabbit)	
		>2000 mg/kg (rat)	
112-57-2 3,6,9-triazaundecamethylenediamine			
Oral	LD50	2140 mg/kg (rat)	
Dermal	LD50	1260 mg/kg (rabbit)	
1477-55-0 m-phenylenebis(methylamine)			
Oral	LD50	1180 mg/kg (mouse)	
		930 mg/kg (rat)	
Dermal	LD50	>3100 mg/kg (rabbit)	
69-72-7 salicylic acid			
Oral	LD50	891 mg/kg (rat)	
Dermal	LD50	>2000 mg/kg (rat)	
112-24-3 3,6-diazaoctanethylenediamin			
Oral	LD50	1716.2 mg/kg (rat)	
Dermal	LD50	1720 mg/kg (rat)	
		I .	

Primary irritant effect:

· Skin corrosion/irritation Caustic effect on skin and mucous membranes.

· Serious eye damage/irritation Strong caustic effect.

Respiratory or skin

sensitisation

Sensitization possible by skin contact.

Additional toxicological

information:

**BE SURE. BUILD SURE.** 

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:

Harmful Corrosive Irritant

Swallowing will lead to a strong caustic effect on mouth and throat

and to the danger of perforation of esophagus and stomach.

# 12 Ecological information

· Toxicity

Aquatic to	xicity:	
100-51-6 E	Benzyl alcohol	
IC50/72h	700 mg/l (algae)	
LC50/96h	460 mg/l (Pimephales promelas)	
	10 mg/l (Lepomis macrochirus)	
2855-13-2	3-aminomethyl-3,5,5-trimethylcyclohexylamine	
LC50/96h	110 mg/l (Leucidus idus)	
EC50	1120 mg/l (Pseudomonas putida)	
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EC50/48h 23 mg/l (Daphnia magna)

NOEC 1.5 mg/l (Desmodesmus subspicatus)

3 mg/l (Daphnia magna)

ErC50/72h >50 mg/l (Desmodesmus subspicatus)

112-57-2 3,6,9-triazaundecamethylenediamine

EC50/72h 2.1 mg/l (algae) LC50/96h 420 mg/l (Gup)

EC50/48h 24.1 mg/l (Daphnia magna)

1477-55-0 m-phenylenebis(methylamine)

IC50/72h 12 mg/l (algae)

EC50/72h | 12 mg/l (Scenedesmus subspicatus) LC50/96h | >100 mg/l (Oncorhynchus mykiss)

87.6 mg/l (Ory)

EC50/48h 15.2 mg/l (Daphnia magna)

· 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 considerations

· 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 Transport information**

· UN-Number

· ADR, IMDG, IATA UN2735

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· UN proper shipping name · ADR, IMDG, IATA	AMINES, LIQUID, CORROSIVE, N.O.S (ISOPHORONEDIAMINE TETRAETHYLENEPENTAMINE)
· Transport hazard class(es)	
· ADR · Class · Label	8 (C7) Corrosive substances. 8
· IMDG, IATA · Class · Label	8 Corrosive substances. 8
· Packing group · ADR, IMDG, IATA	III
· Environmental hazards: · Marine pollutant:	no No
· Special precautions for user · Kemler Number: · EMS Number: · Segregation groups · Stowage Category · Segregation Code	Warning: Corrosive substances. 80 F-A,S-B Alkalis A SG35 Stow "separated from" SGG1-acids
Transport in bulk according to Annex II Marpol and the IBC Code	of Not applicable.
Transport/Additional information:	
· ADR · Limited quantities (LQ) · Excepted quantities (EQ) · Transport category	5L Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml 3
· Tunnel restriction code	E
· IMDG · Limited quantities (LQ) · Excepted quantities (EQ)	5L Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
· UN "Model Regulation":	UN 2735 AMINES, LIQUID, CORROSIVE, N.O.S ( I S O P H O R O N E D I A M I N E TETRAETHYLENEPENTAMINE), 8, III



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### 15 Regulatory information

- · Safety, health and environmental regulations/legislation specific for the substance or mixture
- Directive 2012/18/EU
- · Named dangerous

substances - ANNEX I None of the ingredients is listed.

· 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

specification sheet: Environment protection department.

· 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

Acute Tox. 4: Acute toxicity – Category 4 Acute Tox. 5: Acute toxicity – Category 5

Skin Corr. 1B: Skin corrosion/irritation - Category 1B

Skin Irrit. 2: Skin corrosion/irritation - Category 2

Eye Dam. 1: Serious eye damage/eye irritation - Category 1 Skin Sens. 1: Skin sensitisation - Category 1 Skin Sens. 1B: Skin sensitisation - Category 1B

Repr. 2: Reproductive toxicity - Category 2

Aquatic Acute 2: Hazardous to the aquatic environment - acute aquatic hazard -

Category 2

Aquatic Acute 3: Hazardous to the aquatic environment - acute aquatic hazard -

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