

Page 1/12

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

Printing date 24.10.2021

Version number 12

Revision: 18.10.2021

Product identifier	MO DOWEDDDO HOD Kommensets A
Trade name Relevant identified uses of	MC-POWERPRO HCR - Komponente A
the substance or mixture ar	nd
uses advised against	No further relevant information available.
Application of the substanc	e
/ the mixture	Coating
	Epoxy coating
Details of the supplier of the	e 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: Emergency telephone	msds@mc-bauchemie.de
number:	Tel.: +49 / (0)700 24112112 (MCR)
	Tel.: +48612864565

2 Hazards identification

· Classification of the substance or mixture

Acute Tox. 5	H333 May be harmful if inhaled.
Skin Irrit. 2	H315 Causes skin irritation.
Eye Irrit. 2A	H319 Causes serious eye irritation.
Skin Sens. 1	H317 May cause an allergic skin reaction.
Carc. 2	H351 Suspected of causing cancer. Route of exposure: Inhalation.
Aquatic Acute 2	H401 Toxic to aquatic life.
Aquatic Chronic 2	H411 Toxic to aquatic life with long lasting effects

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

Warning

- · Label elements
- · GHS label elements

Hazard pictograms

The product is classified and labelled according to the Globally Harmonised System (GHS).



· Signal word

(Contd. on page 2)

AE



Page 2/12

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

Printing date 24.10.2021

Version number 12

Revision: 18.10.2021

Trade name MC-POWERPRO HCR - Komponente A

(Contd. of page 1)

AE

Hazard-determining	
components of labelling:	2,2'-[methylenebis(p-phenyleneoxymethylene)]bisoxirane polymers and homologues, molecular weight < 700
	Reaction mass of ethylbenzene and xylene
	titanium dioxide
	Propyl -2,2-diphenyl-4,4'dipropyloxirane polymers and homologues molecular weight < 700
	Epoxyfunktionelles Polymer
	1,6-hexene-diglycidylether
Hazard statements	May be harmful if inhaled.
	Causes skin irritation.
	Causes serious eye irritation.
	May cause an allergic skin reaction.
	Suspected of causing cancer. Route of exposure: Inhalation.
	Toxic to aquatic life with long lasting effects.
Precautionary statements	Avoid breathing dust/fume/gas/mist/vapours/spray.
······································	Avoid release to the environment.
	Wear protective gloves/protective clothing/eye protection/face protection.
	IF INHALED: Call a POISON CENTER/doctor if you feel unwell.
	IF IN EYES: Rinse cautiously with water for several minutes.
	Remove contact lenses, if present and easy to do. Continue
	rinsing.
	Store locked up.
Other hazards	
Results of PBT and vPvB as	sessment
	Not applicable.
PBT:	

3 Composition/information on ingredients

· Chemical characterisation: Mixtures

· Description:

Resin mixture with colouring agents. Mixture consisting of the following components.

· Dangerous d	components:	
9003-36-5	2,2'-[methylenebis(p-phenyleneoxymethylene)]bisoxirane polymers and homologues, molecular weight < 700 Aquatic Chronic 2, H411; Skin Irrit. 2, H315; Eye Irrit. 2A, H319; Skin Sens. 1, H317; Acute Tox. 5, H303; Acute Tox. 5, H313; Aquatic Acute 2, H401	25-50%
1675-54-3	bis[4-(2,3-epoxypropoxy)phenyl]propane Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317	<i>≥</i> 5-<25%
	Epoxyfunktionelles Polymer Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317; Aquatic Chronic 3, H412	<i>≥</i> 10-<25%
		(Contd. on page



Page 3/12

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

Printing date 24.10.2021

Version number 12

Revision: 18.10.2021

Trade name MC-POWERPRO HCR - Komponente A

		(Contd. of page 2)
16096-31-4	1,6-hexene-diglycidylether	<i>≥</i> 2.5-<10%
	Skin Irrit. 2, H315; Eye Irrit. 2A, H319; Skin Sens. 1, H317; Acute Tox. 5, H313; Aquatic Acute 3, H402; Aquatic Chronic 3, H412	
7631-86-9	silicon dioxide, chemically prepared	<5%
	Acute Tox. 5, H313	
	Reaction mass of ethylbenzene and xylene	<5%
	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. 2A, H319; STOT SE 3, H335; Acute Tox. 5, H303	
13463-67-7	titanium dioxide	<i>≥</i> 0.1-<5%
	Carc. 2, H351; Acute Tox. 5, H333	
	Hydrophobes Siliziumdioxid, synthetisch, amorph	<2.5%
	Acute Tox. 5, H313	
222417-26-7	Polyacrylate	<i>≥</i> 0.025-<0.25%
	Eye Dam. 1, H318; Aquatic Acute 1, H400; Aquatic Chronic 1, H410; Skin Irrit. 2, H315	
· Additional in	formation For the wording of the listed hazard phrases refer	to section 16.

4 First aid measures

· 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. · 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 No special measures required.

(Contd. on page 4)



Page 4/12

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

Printing date 24.10.2021

Version number 12

Revision: 18.10.2021

Trade name MC-POWERPRO HCR - Komponente A

(Contd. of page 3)

6 Accidental release measures

 Personal precautions, protective equipment and emergency procedures
 Environmental precautions:
 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 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.
- R Expeditive controls/personal protectic
- 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:* The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

· DNELs

ľ	16096-31-	16096-31-4 1,6-hexene-diglycidylether		
ſ	Dermal	DNEL	2.8 mg/kg bw/day (ArL)	
	Inhalative	DNEL	4.9 mg/m³ (ArL)	
1			(Contd. on page 5)	



Page 5/12

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

Printing date 24.10.2021

Version number 12

Revision: 18.10.2021

7631-86-9	silicor	n dioxide	e, chemically prepared (Contd. of page
Inhalative	DNEL	4 mg/m ³	³ (ArL)
Reaction	mass c	of ethylb	enzene and xylene
Oral	DNEL	1.6 mg/l	kg bw/Tag (ArL)
		mg/kg b	w/Tag (Workers)
Dermal	DNEL	180 mg/	/kg bw/day (ArL)
Inhalative	DNEL	211 mg/	/m³ (ArL)
PNECs			
16096-31-	4 1,6-h	exene-d	iglycidylether
PNEC 0.0	0115 mg	g/I (Fresh	n water)
0.0	00115 n	ng/l (Mev	v)
PNEC 0.2	223 mg/	′kg dwt (l	Bod)
			(Sediment)
0.2	283 mg/	′kg dwt (l	Fresh water sediment)
Additiona	l Occu	pational	Exposure Limit Values for possible hazards during processing:
1330-20-7	xylene)	
PEL (USA)		Long-term value: 435 mg/m³, 100 ppm
REL (USA)		Short-term value: 655 mg/m³, 150 ppm Long-term value: 435 mg/m³, 100 ppm
TLV (USA)			Short-term value: (150) ppm Long-term value: (100) NIC-20 ppm BEI, A4
IOELV (European Union)		n Union)	Short-term value: 442 mg/m³, 100 ppm Long-term value: 221 mg/m³, 50 ppm Skin
WEL (Great Britain)		in)	Short-term value: 441 mg/m³, 100 ppm Long-term value: 220 mg/m³, 50 ppm Sk; BMGV
100-41-4	ethylbe	enzene	
PEL (USA)			Long-term value: 435 mg/m³, 100 ppm
REL (USA)			Short-term value: 545 mg/m³, 125 ppm Long-term value: 435 mg/m³, 100 ppm
TLV (USA)			Long-term value: 20 NIC-20 ppm BEI, A3, NIC: OTO, BEI, A3
IOELV (European Union)		n Union)	Short-term value: 884 mg/m³, 200 ppm Long-term value: 442 mg/m³, 100 ppm Skin
WEL (Great Britain)		in)	Short-term value: 552 mg/m³, 125 ppm Long-term value: 441 mg/m³, 100 ppm Sk
Additiona	l infori	nation:	The lists that were valid during the compilation were used as ba (Contd. on page



Page 6/12

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

Printing date 24.10.2021

Version number 12

Revision: 18.10.2021

Trade name MC-POWERPRO HCR - Komponente A

	(Contd. of page 5)
· Exposure controls · Personal protective equipme	ent
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
Eye protection:	manufacturer of the protective gloves and has to be observed. Safety glasses Tightly sealed safety glasses.
Body protection:	Protective work clothing.

9 Physical and chemical properties

General Information		
Appearance: Form:	Fluid	
Colour:	Pigmented	
Smell:		
Sillell.	Light	
Change in condition		
Melting point/freezing point:	Not determined	
Initial boiling point and boiling r	ange: 200 °C	
Flash point:	>100 °C	
Ignition temperature:	184 °C	
Self-inflammability:	Product is not selfigniting.	
Explosive properties:	Product is not explosive.	
Steam pressure at 20 °C:	0.1 hPa	
Density at 20 °C	1.3 g/cm ³	



Page 7/12

AF

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

Printing date 24.10.2021

Version number 12

Revision: 18.10.2021

Trade name MC-POWERPRO HCR - Komponente A

	(Contd. of pa	age 6)
 Solubility in / Miscibility with Water: 	Not miscible or difficult to mix	
· Viscosity: dynamic:	Not determined.	
· Other information	No further relevant information available.	

Reactivity	No further relevant information available.
Chemical stability	
Thermal decomposition /	
conditions to be avoided:	No decomposition if used according to specifications.
Possibility of hazardous	
reactions	No dangerous reactions known
Conditions to avoid	No further relevant information available.
Incompatible materials:	No further relevant information available.
Hazardous decomposition	
products:	No dangerous decomposition products known

11 Toxicological information

- · Information on toxicological effects
- · Acute toxicity

· LD/LC50 values that are relevant for classification: 9003-36-5 2,2'-[methylenebis(p-phenyleneoxymethylene)]bisoxirane polymers and homologues, molecular weight < 700 Oral LD50 >2000 mg/kg (rat) LD50 >2000 mg/kg (rabbit) Dermal 1675-54-3 bis[4-(2,3-epoxypropoxy)phenyl]propane Dermal LD50 23000 mg/kg (rabbit) 16096-31-4 1,6-hexene-diglycidylether Oral LD50 >8500 mg/kg (rat) Dermal LD50 >4900 mg/kg (rat) 7631-86-9 silicon dioxide, chemically prepared LD50 Oral >5000 mg/kg (rat) LD50 Dermal >2000 mg/kg (rabbit) Reaction mass of ethylbenzene and xylene Oral LD50 3523-4000 mg/kg (rat) Dermal LD50 12126 mg/kg (rabbit) Inhalative LC50/4 h 6350-6700 mg/l (rat) (Contd. on page 8)



Page 8/12

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

Printing date 24.10.2021

Version number 12

Revision: 18.10.2021

Trade name MC-POWERPRO HCR - Komponente A

			(Contd. of page 7)
13463-67-	7 titanium	dioxide	
Oral	LD50	>10000 mg	g/kg (rat)
Dermal	LD50	>10000 mg	g/kg (rabbit)
Inhalative	LC50/4 h	>6.8 mg/l (rat)
Hydropho	bes Silizi	umdioxid, s	synthetisch, amorph
Oral	LD50	>5000 mg/	kg (rat)
Dermal	LD50	>2000 mg/	kg (rabbit)
 Serious e Respirato sensitisati Additiona informational 	bry or skin tion I toxicolog		Irritant effect. Sensitization possible by skin contact. The product shows the following dangers according to the
[.] CMR effe mutageni reproduc	city and to	ogenity, oxicity for	calculation method of the General EC Classification Guidelines for Preparations as issued in the latest version: Irritant

12 Ecological information

Aquatic to	•	
		enebis(p-phenyleneoxymethylene)]bisoxirane polymers and
		molecular weight < 700
	LC50/96h	>100 mg/l (Daphnia magna)
	EC50/96h	>100 mg/l (Leucidus idus)
1675-54-3	bis[4-(2,3-epc	oxypropoxy)phenyl]propane
	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)
7631-86-9	silicon dioxid	le, chemically prepared
	IC50/72h	440 mg/l (Selenastrum capricornutum)
	EC50/24h	>10000 mg/l (Daphnia magna)
	LC50/96h	>5000 mg/l (Danio rerio)
		(Contd. on page



Page 9/12

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

Printing date 24.10.2021

Version number 12

Revision: 18.10.2021

		(Contd. of page 8
		5000 mg/l (Brachydanio rerio)
	EC50/48h	7600 mg/l (Ceriodaphnia dubia)
		120 mg/l (Selenastrum capricornutum)
	NOEC	60 mg/l (Selenastrum capricornutum)
Reaction ma	ass of ethyl	benzene and xylene
	EC50/72h	2.2 mg/l (Selenastrum capricornutum)
	LC50/96h	2.6 mg/l (Oncorhynchus mykiss)
	NOEC	16 mg/l (BEL)
Hvdrophobe	es Siliziumd	lioxid, synthetisch, amorph
Sensitisation		10000 mg/l (Daphnien)
	LC50/96h	>10000 mg/l (Brachydanio rerio)
· Persistence		lability No further relevant information available.
[.] Behaviour in	n environme	ental systems:
· Bioaccumul	ative poten	tial No further relevant information available.
· Mobility in s		No further relevant information available.
· Additional e	cological in	oformation:
· General notes:		Do not allow product to reach ground water, water bodies o
· General not	25.	sewage system.
[·] General not	25.	sewage system.
		sewage system. Danger to drinking water if even small quantities leak into soil.
· Results of P		sewage system. Danger to drinking water if even small quantities leak into soil. B assessment

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.

UN-Number	
ADR, IMDG, IATA	UN3082
UN proper shipping name	
ADR, IATA	ENVIRONMENTALLY HAZARDOUS SUBSTANC



Page 10/12

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

Printing date 24.10.2021

Version number 12

Revision: 18.10.2021

	(Contd. of page
IMDG	ENVIRONMENTALLY HAZARDOUS SUBSTANCE LIQUID, N.O.S. (epoxide derivates), MARINI POLLUTANT
Transport hazard class(es)	
ADR Class	9 (M6) Miscellaneous dangerous substances and articles.
Label	9
IMDG, IATA Class Label	9 Miscellaneous dangerous substances and articles. 9
Packing group ADR, IMDG, IATA	III
Environmental hazards:	Product contains environmentally hazardou substances: epoxide derivates
Marine pollutant:	no Yes Symbol (fish and tree)
Special marking (ADR): Special marking (IATA):	Symbol (fish and tree) Symbol (fish and tree)
Special precautions for user	Warning: Miscellaneous dangerous substances an articles.
Kemler Number:	90 5 A O F
EMS Number: Stowage Category	F-A,S-F A
Transport in bulk according to Anne Marpol and the IBC Code	ex II of 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: 1000 ml
Transport category Tunnel restriction code	3 (-)
<i>IMDG Limited quantities (LQ) Excepted quantities (EQ)</i>	5L Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
	(Contd. on page 1



Page 11/12

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

Printing date 24.10.2021

Version number 12

Revision: 18.10.2021

Trade name MC-POWERPRO HCR - Komponente A

· UN "Model Regulation":

(Contd. of page 10) UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (EPOXIDE DERIVATES), 9, III

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.
 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
· 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: Contact:	Environment protection department.
	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 Inventory of Existing Commercial 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. 5: Acute toxicity – Category 4 Skin Irrit. 2: Skin corrosion/irritation – Category 2 Eye Dam. 1: Serious eye damage/eye irritation – Category 1
	(Contd. on page 12)



Page 12/12

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

Printing date 24.10.2021

Version number 12

Revision: 18.10.2021

(Cantal afrees 11)
(Contd. of page 11) Eye Irrit. 2: Serious eye damage/eye irritation – Category 2
Eye Irrit. 2A: Serious eye damage/eye irritation – Category 2A
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 –
Category 1
Aquatic Acute 2: Hazardous to the aquatic environment - acute aquatic hazard –
Category 2
Aquatic Acute 3: Hazardous to the aquatic environment - acute aquatic hazard –
Category 3
Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic
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
AE