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

Printing date 08.09.2024

Version number 23

Revision: 04.09.2024

· Product identifier	
· Trade name	MC-DUR 2496 CTP Tunnel - Komponente B
Recommended use of the chemical and restrictions on use Application of the substance / the mixture	No further relevant information available. Polyurethane resin Hardening agent/ Curing agent
• Details of the supplier of the	
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
Hazard identification	
Classification of the substand Flam. Liq. 3 H226 Flammable Skin Sens. 1 H317 May cause	liquid and vapour. allergic skin reaction.
Classification of the substand Flam. Liq. 3 H226 Flammable Skin Sens. 1 H317 May cause STOT SE 3 H335 May cause	liquid and vapour. allergic skin reaction.
Classification of the substand Flam. Liq. 3 H226 Flammable Skin Sens. 1 H317 May cause	liquid and vapour. allergic skin reaction. respiratory irritation. The product is classified and labelled according to the Globa
Classification of the substand Flam. Liq. 3 H226 Flammable Skin Sens. 1 H317 May cause STOT SE 3 H335 May cause Label elements	liquid and vapour. allergic skin reaction. respiratory irritation.
Classification of the substand Flam. Liq. 3 H226 Flammable Skin Sens. 1 H317 May cause STOT SE 3 H335 May cause Label elements GHS label elements	liquid and vapour. allergic skin reaction. respiratory irritation. The product is classified and labelled according to the Globa
Classification of the substand Flam. Liq. 3 H226 Flammable Skin Sens. 1 H317 May cause STOT SE 3 H335 May cause Label elements GHS label elements	liquid and vapour. allergic skin reaction. respiratory irritation. The product is classified and labelled according to the Globe Harmonised System (GHS).
Classification of the substand Flam. Liq. 3 H226 Flammable Skin Sens. 1 H317 May cause STOT SE 3 H335 May cause Label elements GHS label elements Hazard pictograms	liquid and vapour. allergic skin reaction. respiratory irritation. The product is classified and labelled according to the Globa Harmonised System (GHS). GHS02 GHS07



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	P241	(Contd. of page 1) Use explosion-proof electrical/ ventilating/
	P261	lighting equipment. Avoid breathing dust/fume/ gas/mist/vapours/ sprav.
	P280	Wear protective gloves/protective clothing/eye protection/face protection.
	P303+P361+P353	IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Rinse skin with water/shower.
	P403+P233	Store in a well-ventilated place. Keep container tightly closed.
· Other hazards		5)
• Results of PBT and vPvB ass	ocement	
· PBT:	Not applicable.	
· vPvB:	Not applicable.	

3 Composition and information of the ingredients of the hazardous chemical

• Chemical characterisation: Mixtures • Description: Active

Active substance with propellant.

Mixture consisting of the following components.

 Dangerous comp 	oonents:	
CAS: 28182-81-2	Aliphatisches Polyisocyanat	60-80%
	Skin Sens. 1, H317; STOT SE 3, H335	
CAS: 123-86-4	n-butyl acetate	≥10-<20%
	Flam. Liq. 3, H226; STOT SE 3, H336	
CAS: 108-65-6	2-methoxy-1-methylethyl acetate	≥10-<20%
	Flam. Liq. 3, H226; STOT SE 3, H336	
CAS: 108-32-7	Propylene carbonate <2	
	Eye Irrit. 2, H319	
· Additional inforn	nation For the wording of the listed hazard phrases refer to se	ection 16.

4 First-aid measures

General information	Remove soiled, soaked clothing immediately.
· After inhalation	Remove person to fresh air, keep warm, allow to rest; if breathing is difficult, seek medical attention.
· After skin contact	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 the eyes with open eyelids for a sufficiently long time (at least 10 minutes) with water that is as lukewarm as possible. Consult an ophthalmologist.
· After swallowing	Do NOT induce vomiting. Rinse mouth with water. Medical attention required.
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(Contd. of page 2) · Information for doctor Most important symptoms and effects, both acute and delayed Advice for the doctor: Elementary aid, decontamination, symptomatic treatment. · Indication of any immediate medical attention and special treatment needed Therapeutic measures: No information available.

5 Fire-fighting measures

- · Extinguishing media
- Suitable extinguishing agents Use fire fighting measures that suit the environment.
- · Special hazards arising from the

the substance or mixture	Can be released in case of fire
	Carbon monoxide (CO)
	Nitrogen oxides (NOx)
	Under certain fire conditions, traces of other toxic gases cannot be
	excluded, e.g.:
	Hydrogen cyanide (HCN)
 Advice for firefighters 	
· Protective equipment:	Wear self-contained breathing apparatus.
• •	

6 Accidental release measures

 Personal precautions, protective equipment and emergency procedures 	Ensure adaquate ventilation
emergency procedures	Ensure adequate ventilation Use breathing protection against the effects of fumes/dust/aerosol.
• Environmental precautions: • Methods and material for	Prevent material from reaching sewage system, holes and cellars.
containment and cleaning up	: Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
· Reference to other sections	Dispose of contaminated material as waste according to item 13. Ensure adequate ventilation. 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 Ensure sufficient air exchange and/or extraction in the work areas. Air extraction is required for spray application. For solid products: Avoid dust formation and dust deposits. Air limit values mentioned in section 8 must be monitored. At workplaces where isocyanate aerosols and/or vapours can (Contd. on page 4)



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	(Contd. of page 3) occur in higher concentrations, targeted air extraction must be used to prevent the occupational hygiene limit value from being exceeded. The air must be moved away from people. For products containing solvents: Explosion protection required. The personal protective measures described in section 8 must be observed. The protective measures required when handling isocyanates must be observed. Avoid contact with skin and eyes and inhalation of vapours. Keep away from food and beverages. Wash hands before breaks and at the end of work and apply skin protection ointment. Store work clothes separately. Remove soiled, soaked clothing immediately.
 Information about protection against explosions and fires: 	Keep ignition sources away - do not smoke. Protect from heat. Do not store near heat sources.
 Conditions for safe storage, including any incompatibilities 	Keep container dry and tightly closed. Further information on the storage conditions that must be observed for quality assurance reasons can be found in our technical data sheet.
 Storage Requirements to be met by storerooms and containers: 	Keep tightly closed in original packaging. Ventilate storage rooms well. Carefully close opened containers and store upright to prevent any leakage.
 Information about storage in one common storage facility: Further information about 	Storage temperature >5°C and <30°C May be stored together with hazardous substances of other classes up to 200 kg.
 Storage conditions: Storage class Specific end use(s) 	Keep container tightly closed in a well-ventilated place. 3 No further relevant information available.

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:

CAS: 123-86-4 n-butyl acetate

PEL (Malaysia) Long-term value: 713 mg/m³, 150 ppm

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		(Contd. of page
DNELS	00 04 0 Alimbotic	has Dalvias averat
	-	ches Polyisocyanat (Workers) (long term local)
IIIIalalive	-	
040.400	÷ ,	rei) (acute local eff)
	86-4 n-butyl acet	
	DNEL 480 mg/m ³	
		I-methylethyl acetate
	DNEL 153.5 mg/l	
Inhalative	DNEL 275 mg/m ³	³ (ArL)
PNECs		
CAS: 2818	32-81-2 Aliphatisc	hes Polyisocyanat
PNEC aqu	a 12.7 µg/l (Daph	nia magna) (marine)
PNEC	38.28 mg/l (kei)	(STP)
CAS: 108-	65-6 2-methoxy-1	-methylethyl acetate
PNEC	0.635 mg/l (Fre	sh water)
	100 mg/l (Kla)	
	0.0635 mg/l (Me	ew)
PNEC	0.29 mg/kg dwt	(Bod)
	0.329 mg/kg dw	t (Marine water sediment)
		(Fresh water sediment)
Additiona	l information:	The lists that were valid during the compilation were used as bas
General p hygienic n	rotective and neasures	Do not smoke, eat or drink while working. Have eye wa equipment ready. Do not inhale gases/vapours/aerosols. Avoid contact with eyes a skin. Do not store food in the work area. Wash hands before breaks a
Breathing equipment:		at the end of work. Respiratory protection required at insufficiently ventilat workplaces and when working with splashes. Fresh air masks combination filters A2-P2 (EN529) are recommended for sho term work.
		If applicable, further recommendations for respiratory protecti can be found in the appendix. In case of hypersensitivity of the respiratory tract (asthma, chrou bronchitis), handling of the product is not recommended. An nicht ausreichend entlüfteten Arbeitsplätzen und k Spritzverarbeitung Atemschutz erforderlich. Empfohlen werd Frischluftmaske oder für kurzzeitige Arbeiten Kombinationsfil A2-P2.
		Bei Überempfindlichkeit der Atemwege und der Haut (Asthma, (Contd. on page



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	chronische Bronchitis, chronische Hautleiden) wird der Umgang mit dem Produkt abgeraten.
• Protection of hands:	Suitable materials for protective gloves; EN 374:
	Butyl rubber - IIR: thickness ≥0.5mm; breakthrough time ≥480min.
	Fluororubber - FKM: thickness ≥0.4mm; breakthrough time ≥480min.
	Recommendation: Dispose of contaminated gloves.
	Bedingt geeignete Materialien für Schutzhandschuhe; EN 374-3: Nitrilkautschuk - NBR: Dicke ≥0,35mm
	Nur als Spritzschutz geeignet. Nur bei kurzzeitiger Einwirkung geeignet. Bei Kontamination sind die Schutzhandschuhe sofort zu wechseln.
· 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.
· Penetration time of glove	
material	Butyl rubber - IIR: thickness ≥0.5mm; breakthrough time ≥480min.
material	Fluoro rubber - FKM: thickness ≥0.4mm; breakthrough time >480min.
• Eye protection:	Wear safety goggles/face protection.
· Body protection:	Wear suitable protective clothing when working.
	In case of hypersensitivity of the skin, handling of the product is not recommended.

Information on basic physical an General Information	a chemical properties	
Appearance:		
Form:	Fluid	
Colour:	Dark brown	
Smell:	Characteristic	
pH-value:	Not applicable.	
	Not determined.	
Change in condition		
Melting point/freezing point	Not determined	
Initial boiling point and boiling	<i>range</i> 124-128 °C	
Flash point:	27 °C	
Auto-ignition temperature	315 °C	
Auto-ignition temperature	Product is not selfigniting.	
Explosive properties:	Product is not explosive.	



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1.5 Vol % 10.4 Vol %
10.4 Vol 9/
10.4 V01 %
13 hPa
55 hPa
1.12 g/cm³
Hydrolized
Not determined.
Not determined.
ther relevant information available.

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

11 Toxicological information

- · Information on toxicological effects
- · Acute toxicity

· LD/LC50	values tha	at are relevant for classification:	
CAS: 281	82-81-2 Al	liphatisches Polyisocyanat	
Oral	LD50	>2500 mg/kg (rat) (OECD 423)	
Dermal	LD50	>2000 mg/kg (rat) (OECD 402)	
CAS: 123	-86-4 n-bu	ityl acetate	
Oral	LD50	10760 mg/kg (rat)	
Dermal	LD50	>14112 mg/kg (rabbit)	
Inhalative	LC50/4 h	23.4 mg/l (rat)	
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		(Contd. of page 7)
CAS: 108	8-65-6 2-m	ethoxy-1-methylethyl acetate
Oral	LD50	8500 mg/kg (rat)
Dermal	LD50	>2000 mg/kg (rat)
CAS: 108	3-32-7 Pro	pylene carbonate
Oral	LD50	>5000 mg/kg (rat)
Dermal	LD50	>2000 mg/kg (rabbit)
 Primary i Serious e irritation Respirate sensitiza Addition informati 	eye dama ory / skin tion al toxicol	ge or eye No irritant effect. Sensitization possible by skin contact.

Toxicity			
Aquatic to	kicity:		
CAS: 2818	2-81-2 Aliphatiscl	nes Polyisocyanat	
ErC10/72h	370 mg/l (Desmo	desmus subspicatus) (EU C.3)	
ErC50/72h	>1000 mg/l (Desn	nodesmus subspicatus) (EU C.3)	
CAS: 123-8	86-4 n-butyl aceta	te	
IC50	356 mg/l (Bak)		
EC50/72h	647.7 mg/l (Desm	odesmus subspicatus)	
LC50/96h	18 mg/l (Pimephales promelas)		
EC50/48h	44 mg/l (Daphnia magna)		
NOEC	200 mg/l (Desmodesmus subspicatus)		
CAS: 108-0	5-6 2-methoxy-1-	methylethyl acetate	
LC50/96h	134 mg/l (Oncorh	ynchus mykiss)	
	161 mg/l (Pimeph	ales promelas)	
EC50	>1000 mg/l (BEL)		
EC50/48h	>500 mg/l (Daphnia magna)		
NOEC	47.5 mg/l (Ory)		
EC50/3d	>1000 mg/l (Selenastrum capricornutum)		
		ty No further relevant information available.	
	in environmental		
Bioaccum Mobility in		No further relevant information available. No further relevant information available.	



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General notes:	Do not allow undiluted product or large quantities of it to reac ground water, water bodies or sewage system.
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
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· 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	UN1993
UN proper shipping name ADR, IMDG, IATA	FLAMMABLE LIQUID, N.O.S. (BUTYL ACETATE 2-methoxy-1-methylethyl acetate)
Transport hazard class(es)	
ADR	
Class	3 (F1) Flammable liquids.
Label	3
IMDG, IATA	
Class	3 Flammable liquids.
Label	3
Packing group	
ADR, IMĎG, IATA	III
Environmental hazards:	
Marine pollutant:	No
Special precautions for user	Warning: Flammable liquids.
Kemler Number:	30
EMS Number:	F-E, <u>S-E</u>
Stowage Category	A
Transport in bulk according to Ann	ex II of
Marpol and the IBC Code	Not applicable.



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· 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	D/E
· IMDG	
· Limited quantities (LQ)	51
· Excepted quantities (EQ)	Code: E1
Excepted quantities (EQ)	
	Maximum net quantity per inner packaging: 30 ml
	Maximum net quantity per outer packaging: 1000 ml
· UN "Model Regulation":	UN 1993 FLAMMABLE LIQUID, N.O.S. (BUTY
-	ACETATES, 2-METHOXY-1-METHYLETHY
	ACETATE), 3, III

15 Regulatory information

- Safety, health and environmental regulations/legislation specific for the substance or mixture
- · EHS reference list
- CAS: 123-86-4 n-butyl acetate
- CAS: 108-65-6 2-methoxy-1-methylethyl acetate
- CAS: 108-32-7 Propylene carbonate
- Directive 2012/18/EU
 Named dangerous substances - ANNEX I
 None of the ingredients is listed.
 Seveso category
 P5c FLAMMABLE LIQUIDS
 Qualifying quantity (tonnes) for the application of lowertier requirements
 5000 t
 Qualifying quantity (tonnes) for the application of upper-
- *tier requirements* 50000 *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.

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Department issuing data	
specification sheet:	Environment protection department.
Contact:	
Abbreviations and acronyms:	RID: Règlement international concernant le transport des marchand dangereuses par chemin de fer (Regulations Concerning the Internation Transport of Dangerous Goods by Rail) ICAO: International Civil Aviation Organisation ADR: Accord relatif au transport international des marchandises dangereuses route (European Agreement Concerning the International Carriage of Dange 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
	Eye Irrit. 2: Serious eye damage or eye irritation – Category 2 Skin Sens. 1: Skin sensitization – Category 1 STOT SE 3: Specific target organ toxicity (single exposure) – Category 3
* Data compared to the previous version altered.	