



BE SURE. BUILD SURE.

Page 1/11

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

Printing date 29.12.2022

Version number 18 (replaces version 17)

Revision: 29.12.2022

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Trade name **MC-DUR 2496 CTP - Komponente B**

Article number: 2930

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

Polyurethane resin
Hardening agent/ Curing agent

1.3 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

1.4 Emergency telephone number:

Tel.: +49 / (0)700 24112112 (MCR)
Tel.: +48612864565

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

Flam. Liq. 3 H226 Flammable liquid and vapour.

Acute Tox. 4 H332 Harmful if inhaled.

Skin Sens. 1 H317 May cause an allergic skin reaction.

STOT SE 3 H335 May cause respiratory irritation.

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



GHS02 GHS07

(Contd. on page 2)

GB



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Printing date 29.12.2022

Version number 18 (replaces version 17)

Revision: 29.12.2022

Trade name MC-DUR 2496 CTP - Komponente B

(Contd. of page 1)

- **Signal word** Warning
- **Hazard-determining components of labelling:** Aliphatisches Polyisocyanat
- **Hazard statements** H226 Flammable liquid and vapour.
H332 Harmful if inhaled.
H317 May cause an allergic skin reaction.
H335 May cause respiratory irritation.
- **Precautionary statements**
 - P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
 - P241 Use explosion-proof [electrical/ventilating/lighting] equipment.
 - P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
 - P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.
 - P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].
 - P403+P233 Store in a well-ventilated place. Keep container tightly closed.
- **Additional information:** To avoid risks to human health and the environment, comply with the instructions for use.
Contains isocyanates. May produce an allergic reaction.
- **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:** Active substance with propellant.
Mixture consisting of the following components.

· **Dangerous components:**

CAS: 28182-81-2	Aliphatisches Polyisocyanat Acute Tox. 4, H332; Skin Sens. 1, H317; STOT SE 3, H335, EUH204	70-100%
CAS: 123-86-4 EINECS: 204-658-1	n-butyl acetate Flam. Liq. 3, H226; STOT SE 3, H336, EUH066	<20%
CAS: 108-65-6 EINECS: 203-603-9	2-methoxy-1-methylethyl acetate Flam. Liq. 3, H226	<25%
CAS: 108-32-7 EINECS: 203-572-1	propylene carbonate Eye Irrit. 2, H319	<2.5%

(Contd. on page 3)



BE SURE. BUILD SURE.

Page 3/11

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

Printing date 29.12.2022

Version number 18 (replaces version 17)

Revision: 29.12.2022

Trade name MC-DUR 2496 CTP - Komponente B

· **Additional information**

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

(Contd. of page 2)

SECTION 4: First aid measures

· **4.1 Description of first aid measures**

· **General information**

Instantly remove any clothing soiled by the product.
Take affected persons into the open air.
Seek medical treatment.

· **After inhalation**

Supply fresh air.
Call a doctor immediately.

· **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**

Call a doctor immediately.

· **4.2 Most important symptoms and effects, both acute and delayed**

No further relevant information available.

· **4.3 Indication of any immediate medical attention and special treatment needed**

No further relevant information available.

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**

Can be released in case of fire

Carbon monoxide (CO)

Nitrogen oxides (NO_x)

Under certain fire conditions, traces of other toxic gases cannot be excluded, e.g.:

Hydrogen cyanide (HCN)

· **5.3 Advice for firefighters**

· **Protective equipment:**

Wear self-contained breathing apparatus.

SECTION 6: Accidental release measures

· **6.1 Personal precautions, protective equipment and emergency procedures**

Ensure adequate ventilation

Use breathing protection against the effects of fumes/dust/aerosol.

· **6.2 Environmental precautions:**

Prevent material from reaching sewage system, holes and cellars.

(Contd. on page 4)



BE SURE. BUILD SURE.

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

Printing date 29.12.2022

Version number 18 (replaces version 17)

Revision: 29.12.2022

Trade name MC-DUR 2496 CTP - Komponente B

(Contd. of page 3)

- **6.3 Methods and material for containment and cleaning up:** Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Dispose of contaminated material as waste according to item 13.
Ensure adequate ventilation.
- **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**
Ensure good ventilation/exhaustion at the workplace.
Prevent formation of aerosols.
- **Information about protection against explosions and fires:** No special measures required.
- **7.2 Conditions for safe storage, including any incompatibilities**
- **Storage**
- **Requirements to be met by storerooms and containers:** Store only in the original container.
- **Information about storage in one common storage facility:** Store away from foodstuffs.
- **Further information about storage conditions:** Keep container tightly sealed.
- **7.3 Specific end use(s)** No further relevant information available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Components with critical values that require monitoring at the workplace:

123-86-4 n-butyl acetate

WEL	Short-term value: 966 mg/m ³ , 200 ppm
	Long-term value: 724 mg/m ³ , 150 ppm

108-65-6 2-methoxy-1-methylethyl acetate

WEL	Short-term value: 548 mg/m ³ , 100 ppm
	Long-term value: 274 mg/m ³ , 50 ppm
Sk	

DNELs

28182-81-2 Aliphatisches Polyisocyanat

Inhalative	DNEL	0.5 mg/m ³ (Workers) (long term local)
		1 mg/m ³ (kei) (acute local eff)

(Contd. on page 5)



BE SURE. BUILD SURE.

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Printing date 29.12.2022

Version number 18 (replaces version 17)

Revision: 29.12.2022

Trade name MC-DUR 2496 CTP - Komponente B

(Contd. of page 4)

123-86-4 n-butyl acetate

Inhalative DNEL 480 mg/m³ (ArL)

108-65-6 2-methoxy-1-methylethyl acetate

Dermal DNEL 153.5 mg/kg bw/day (ArL)

Inhalative DNEL 275 mg/m³ (ArL)

· PNECs

28182-81-2 Aliphatisches Polyisocyanat

PNEC 12.7 µg/l (*Daphnia magna*) (marine)

PNEC 38.28 mg/l (kei) (STP)

108-65-6 2-methoxy-1-methylethyl acetate

PNEC 0.635 mg/l (Fresh water)

100 mg/l (Kla)

0.0635 mg/l (Mew)

PNEC 0.29 mg/kg dwt (Bod)

0.329 mg/kg dwt (Marine water sediment)

3.29 mg/kg dwt (Fresh water sediment)

· **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 item 7.

· Individual protection measures, such as 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.
Do not eat, drink or smoke while working.

· Hand protection

Protective gloves.

· Material of gloves

Nitrile rubber, NBR

· Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

· Eye/face protection

Safety glasses
Tightly sealed safety glasses.

· Body protection:

Protective work clothing.

SECTION 9: Physical and chemical properties

· 9.1 Information on basic physical and chemical properties

· General Information

· **Colour:**

Dark brown

· **Smell:**

Characteristic

(Contd. on page 6)



BE SURE. BUILD SURE.

Page 6/11

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

Printing date 29.12.2022

Version number 18 (replaces version 17)

Revision: 29.12.2022

Trade name MC-DUR 2496 CTP - Komponente B

(Contd. of page 5)

· Melting point/freezing point:	Not determined
· Boiling point or initial boiling point and boiling range	124-128 °C (123-86-4 n-butyl acetate)
· Flash point:	27 °C (DIN 51755)
· Ignition temperature:	315 °C (108-65-6 2-methoxy-1-methylethyl acetate)
· pH	Not applicable.
· Solubility	
· Water:	Hydrolized
· Steam pressure at 20 °C:	13 hPa (123-86-4 n-butyl acetate)
· Density and/or relative density	
· Density at 20 °C	1.12 g/cm ³
· 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	
· Explosives	Void
· Flammable gases	Void
· Aerosols	Void
· Oxidising gases	Void
· Gases under pressure	Void
· Flammable liquids	Flammable liquid and vapour.
· 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
· Oxidising liquids	Void
· Oxidising solids	Void
· Organic peroxides	Void
· Corrosive to metals	Void
· Desensitised explosives	Void

SECTION 10: Stability and reactivity

· **10.1 Reactivity** No further relevant information available.

(Contd. on page 7)

GB



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Safety data sheet
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Printing date 29.12.2022

Version number 18 (replaces version 17)

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Trade name MC-DUR 2496 CTP - Komponente B

(Contd. of page 6)

- **10.2 Chemical stability**
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **10.3 Possibility of hazardous reactions** Reacts with amines
- **10.4 Conditions to avoid** No further relevant information available.
- **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** Harmful if inhaled.

· **LD/LC50 values that are relevant for classification:**

28182-81-2 Aliphatisches Polyisocyanat

Oral	LD50	>2500 mg/kg (rat) (OECD 423)
Dermal	LD50	>2000 mg/kg (rat) (OECD 402)

123-86-4 n-butyl acetate

Oral	LD50	10760 mg/kg (rat)
Dermal	LD50	>14112 mg/kg (rabbit)
Inhalative	LC50/4 h	23.4 mg/l (rat)

108-65-6 2-methoxy-1-methylethyl acetate

Oral	LD50	8500 mg/kg (rat)
Dermal	LD50	>2000 mg/kg (rat)

108-32-7 propylene carbonate

Oral	LD50	>5000 mg/kg (rat)
Dermal	LD50	>2000 mg/kg (rbt)

- **Skin corrosion/irritation** Based on available data, the classification criteria are not met.
- **Respiratory or skin sensitisation** May cause an allergic skin reaction.
- **Germ cell mutagenicity** Based on available data, the classification criteria are not met.
- **Carcinogenicity** Based on available data, the classification criteria are not met.
- **Reproductive toxicity** Based on available data, the classification criteria are not met.
- **STOT-single exposure** May cause respiratory irritation.
- **STOT-repeated exposure** Based on available data, the classification criteria are not met.
- **Aspiration hazard** Based on available data, the classification criteria are not met.
- **11.2 Information on other hazards**

· **Endocrine disrupting properties**

None of the ingredients is listed.

GB

(Contd. on page 8)



BE SURE. BUILD SURE.

Page 8/11

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

Printing date 29.12.2022

Version number 18 (replaces version 17)

Revision: 29.12.2022

Trade name **MC-DUR 2496 CTP - Komponente B**

(Contd. of page 7)

SECTION 12: Ecological information

· 12.1 Toxicity

· Aquatic toxicity:

28182-81-2 Aliphatisches Polyisocyanat

ErC10/72h 370 mg/l (*Desmodesmus subspicatus*) (EU C.3)

ErC50/72h >1000 mg/l (*Desmodesmus subspicatus*) (EU C.3)

123-86-4 n-butyl acetate

IC50 356 mg/l (Bak)

EC50/72h 647.7 mg/l (*Desmodesmus subspicatus*)

LC50/96h 18 mg/l (*Pimephales promelas*)

EC50/48h 44 mg/l (*Daphnia magna*)

NOEC 200 mg/l (*Desmodesmus subspicatus*)

108-65-6 2-methoxy-1-methylethyl acetate

LC50/96h 134 mg/l (*Oncorhynchus mykiss*)

161 mg/l (*Pimephales 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*)

· 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

· PBT:

Not applicable.

· vPvB:

Not applicable.

· 12.6 Endocrine disrupting properties

The product does not contain substances with endocrine disrupting properties.

· 12.7 Other adverse effects

· Additional ecological information:

· General notes:

Do not allow undiluted product or large quantities of it to reach ground water, water bodies or sewage system.

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.

(Contd. on page 9)

GB



BE SURE. BUILD SURE.

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

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Trade name MC-DUR 2496 CTP - Komponente B

(Contd. of page 8)

- **Uncleaned packagings:**
- **Recommendation:** Empty contaminated packagings thoroughly. They can be recycled after thorough and proper cleaning.

SECTION 14: Transport information

· 14.1 UN number or ID number · ADR, IMDG, IATA	UN1993
· 14.2 UN proper shipping name · ADR, IMDG, IATA	FLAMMABLE LIQUID, N.O.S. (BUTYL ACETATES, 2-methoxy-1-methylethyl acetate)
· 14.3 Transport hazard class(es) · ADR · Class · Label	3 (F1) Flammable liquids. 3
· IMDG, IATA · Class · Label	3 Flammable liquids. 3
· 14.4 Packing group · ADR, IMDG, IATA	III
· 14.5 Environmental hazards: · Marine pollutant:	No
· 14.6 Special precautions for user · Kemler Number: · EMS Number: · Stowage Category	Warning: Flammable liquids. 30 F-E, S-E A
· 14.7 Maritime transport in bulk according to IMO instruments	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 D/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

(Contd. on page 10)



BE SURE. BUILD SURE.

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

Printing date 29.12.2022

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Revision: 29.12.2022

Trade name MC-DUR 2496 CTP - Komponente B

(Contd. of page 9)

	ml
· UN "Model Regulation":	UN 1993 FLAMMABLE LIQUID, N.O.S. (BUTYL ACETATES, 2-METHOXY-1-METHYLETHYL ACETATE), 3, III

SECTION 15: Regulatory information

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **Directive 2012/18/EU**
- **Qualifying quantity (tonnes) for the application of lower-tier requirements** 5000 t
- **Qualifying quantity (tonnes) for the application of upper-tier requirements** 50000 t
- **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.
 - H317 May cause an allergic skin reaction.
 - H319 Causes serious eye irritation.
 - H332 Harmful if inhaled.
 - H335 May cause respiratory irritation.
 - H336 May cause drowsiness or dizziness.
 - EUH066 Repeated exposure may cause skin dryness or cracking.
 - EUH204 Contains isocyanates. 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
 - 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)

(Contd. on page 11)



BE SURE. BUILD SURE.

Page 11/11

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

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Version number 18 (replaces version 17)

Revision: 29.12.2022

Trade name MC-DUR 2496 CTP - Komponente B

(Contd. of page 10)

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

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

Skin Sens. 1: Skin sensitisation – Category 1

STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

*** Data compared to the
previous version altered.**

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