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Safety data sheet according to Regulation (EC) No 1907/2006, Article 31

Printing date 12.04.2024

Version number 23



Revision: 12.04.2024

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

- **Product identifier**
- **Trade name** MC-DUR 2496 CTP Tunnel - Komponente A
- **Relevant identified uses of the substance or mixture and uses advised against** No further relevant information available.
- **Application of the substance / the mixture** Polyurethane lacquer
- **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 Hazards identification

- **Classification of the substance or mixture**
 - Acute Tox. 5 H333 May be harmful if inhaled.
 - Skin Sens. 1 H317 May cause an allergic skin reaction.
 - Carc. 2 H351 Suspected of causing cancer. Route of exposure: Inhalation.
 - Aquatic Acute 3 H402 Harmful to aquatic life.
 - 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**

GHS07 GHS08
- **Signal word** Warning
- **Hazard-determining components of labelling:** tetraethyl-N,N'-(methylenedicyclohexane-4,1-diy)bis-DL-aspartate titanium dioxide
Reaction mass of Decanedioic acid, bis(1,2,2,6,6-pentamethyl-4-piperidiny) ester and decanedioic acid, (1,2,2,6,6-pentamethyl-4-piperidiny) methyl ester
- **Hazard statements** May be harmful if inhaled.

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- **Precautionary statements**
 - May cause an allergic skin reaction.
 - Suspected of causing cancer. Route of exposure: Inhalation.
 - Harmful to aquatic life with long lasting effects.
 - 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 exposed or concerned: Get medical advice/attention.
 - Store locked up.
- **Other hazards**
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.

3 Composition/information on ingredients

- **Chemical characterisation: Mixtures**
- **Description:** Resin mixture.
Mixture consisting of the following components.

· **Dangerous components:**

CAS: 136210-30-5	tetraethyl-N,N'-(methylenedicyclohexane-4,1-diyl)bis-DL-aspartate Skin Sens. 1, H317; Aquatic Chronic 3, H412	30-60%
CAS: 13463-67-7	titanium dioxide Carc. 2, H351; Acute Tox. 5, H333	10-30%
CAS: 1318-02-1	zeolites Acute Tox. 5, H313	<10%
CAS: 67762-90-7	Hydrophobes Siliziumdioxid, synthetisch, amorph Acute Tox. 5, H313	<2.5%
CAS: 1332-37-2	Iron oxide	<1.5%
CAS: 64742-95-6	Solvent naphtha (petroleum), light arom. Flam. Liq. 3, H226; Asp. Tox. 1, H304; Aquatic Chronic 2, H411; STOT SE 3, H335-H336	≥0.25-<1.5%
CAS: 222417-26-7	Polyacrylate Eye Dam. 1, H318; Aquatic Acute 1, H400; Aquatic Chronic 1, H410; Skin Irrit. 2, H315	≥0.25-<1%
	Reaction mass of Decanedioic acid, bis(1,2,2,6,6-pentamethyl-4-piperidiny) ester and decanedioic acid,(1,2,2,6,6-pentamethyl-4-piperidiny) methyl ester Repr. 2, H361; Aquatic Acute 1, H400; Aquatic Chronic 1, H410; Skin Sens. 1A, H317	≥0.1-<0.25%

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4 First aid measures

- **Description of 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.
- **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 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:** No special measures required.

6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures** Not required.
- **Environmental precautions:** No special measures required.
- **Methods and material for containment and cleaning up:** Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
- **Reference to other sections** No dangerous materials are released.

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.

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*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 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.

Storage temperature >5°C and <30°C

· Information about storage in one common storage facility:

May be stored together with hazardous substances of other classes up to 200 kg.

· Further information about storage conditions:

None.

· Storage class

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· 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 section 7.

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· **Control parameters**

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

CAS: 1332-37-2 Iron oxide

REL (USA) Long-term value: 1 mg/m³
as Fe

TLV (USA) Long-term value: 1 mg/m³
as Fe

· **DNELs**

CAS: 136210-30-5 tetraethyl-N,N'-(methylenedicyclohexane-4,1-diyl)bis-DL-aspartate

Dermal DNEL 4 mg/kg bw/day (ArL)

Inhalative DNEL 28 mg/m³ (ArL)

112 mg/m³ (Ark)

· **PNECs**

CAS: 136210-30-5 tetraethyl-N,N'-(methylenedicyclohexane-4,1-diyl)bis-DL-aspartate

PNEC 31.1 mg/l (Kla)

0.000013 mg/l (Mew)

0.00013 mg/l (Freshwater)

PNEC 0.1 mg/kg dwt (Bod)

0.02 mg/kg dwt (Marine water sediment)

0.21 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**

Do not smoke, eat or drink while working. Have eye wash equipment ready.

Do not inhale gases/vapours/aerosols. Avoid contact with eyes and skin.

Do not store food in the work area. Wash hands before breaks and at the end of work.

· **Breathing equipment:**

Respiratory protection required at insufficiently ventilated workplaces and when working with splashes. Fresh air masks or combination filters A2-P2 (EN529) are recommended for short-term work.

If applicable, further recommendations for respiratory protection can be found in the appendix.

In case of hypersensitivity of the respiratory tract (asthma, chronic bronchitis), handling of the product is not recommended.

An nicht ausreichend entlüfteten Arbeitsplätzen und bei Spritzverarbeitung Atemschutz erforderlich. Empfohlen werden Frischluftmaske oder für kurzzeitige Arbeiten Kombinationsfilter A2-P2.

Bei Überempfindlichkeit der Atemwege und der Haut (Asthma, chronische Bronchitis, chronische Hautleiden) wird der Umgang

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- **Protection of hands:** mit dem Produkt abgeraten.
Suitable materials for protective gloves; EN 374:
Butyl rubber - IIR: thickness $\geq 0.5\text{mm}$; breakthrough time $\geq 480\text{min}$.
Fluororubber - FKM: thickness $\geq 0.4\text{mm}$; breakthrough time $\geq 480\text{min}$.
Multi-layer glove - PE/EVAL/PE ; Breakthrough time $\geq 480\text{ min}$.
Recommendation: Dispose of contaminated gloves.
Bedingt geeignete Materialien für Schutzhandschuhe; EN 374-3:
Nitrilkautschuk - NBR: Dicke $\geq 0,35\text{mm}$
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 $\geq 0.5\text{mm}$; breakthrough time $\geq 480\text{min}$.
Fluoro rubber - FKM: thickness $\geq 0.4\text{mm}$; breakthrough time $\geq 480\text{min}$.
Multi-layer glove - PE/EVAL/PE ; Breakthrough time $\geq 480\text{ min}$.
- **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.

9 Physical and chemical properties

- **Information on basic physical and chemical properties**
- **General Information**
- **Appearance:**
 - **Form:** Fluid
 - **Colour:** According to product specification
 - **Smell:** Characteristic
- **pH-value:** Not applicable.
Not determined.
- **Change in condition**
 - **Melting point/freezing point:** Not determined
 - **Initial boiling point and boiling range:** 185 °C
- **Flash point:** Not applicable
- **Auto-ignition temperature:** 375 °C
- **Self-inflammability:** Product is not selfigniting.
- **Explosive properties:** Product is not explosive.
- **Steam pressure at 20 °C:** 0 hPa

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· Density at 20 °C	1.55 g/cm ³
· Solubility in / Miscibility with Water:	Not miscible or difficult to mix
· Viscosity: dynamic:	Not determined.
kinematic:	Not determined.
· 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:	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:**

CAS: 136210-30-5 tetraethyl-N,N'-(methylenedicyclohexane-4,1-diyl)bis-DL-aspartate

Oral	LD50	>2000 mg/kg (rat) (67/548/EWG, Annex V, B.1)
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Dermal	LD50	>2000 mg/kg (rat) (67/548/EWG, Annex V, B.3)
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CAS: 13463-67-7 titanium dioxide

Oral	LD50	>5000 mg/kg (rat)
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Dermal	LD50	>10000 mg/kg (rabbit)
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Inhalative	LC50/4 h	>6.8 mg/l (rat)
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CAS: 1318-02-1 zeolites

Oral	LD50	5110 mg/kg (rat)
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	NOAEL	250-300 mg/kg (rat)
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Dermal	LD50	5000 mg/kg (rabbit)
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CAS: 67762-90-7 Hydrophobes Siliziumdioxid, synthetisch, amorph

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

· **Primary irritant effect:**

· **Serious eye damage/irritation** No irritant effect.

· **Respiratory or skin**

sensitisation

Sensitization possible by skin contact.

· **Additional toxicological information:**

The product is not subject to classification according to the calculation method of the General EC Classification Guidelines for Preparations as issued in the latest version:

When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.

· **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**

Carc. 2

12 Ecological information

· **Toxicity**

· **Aquatic toxicity:**

CAS: 136210-30-5 tetraethyl-N,N'-(methylenedicyclohexane-4,1-diyl)bis-DL-aspartate

LC50/96h	66 mg/l (Danio rerio) (OECD 203)
EC50	3110 mg/l (BEL)
EC50/48h	88.6 mg/l (Daphnia magna)
NOEC	0.01 mg/l (Daphnia magna)
ErC50/72h	113 mg/l (Scenedesmus subspicatus)

CAS: 1318-02-1 zeolites

EC50/24h	2808 mg/l (Daphnia magna)
LC50/96h	680 mg/l (Pimephales promelas)
EC50/96h	328 mg/l (Scenedesmus subspicatus)

CAS: 67762-90-7 Hydrophobes Siliziumdioxid, synthetisch, amorph

Sensitisation	EL50	10000 mg/l (Daphnien)
	LC50/96h	>10000 mg/l (Brachydanio rerio)

· **Persistence and degradability** No further relevant information available.

· **Behaviour in environmental systems:**

· **Bioaccumulative potential** No further relevant information available.

· **Mobility in soil**

No further relevant information available.

· **Additional ecological information:**

· **General notes:**

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

· **Results of PBT and vPvB assessment**

· **PBT:**

Not applicable.

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- **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 | Void |
| · ADR, ADN, IMDG, IATA | Void |
| · UN proper shipping name | Void |
| · ADR, ADN, IMDG, IATA | Void |
| · Transport hazard class(es) | |
| · ADR, ADN, IMDG, IATA | |
| · Class | Void |
| · Packing group | Void |
| · ADR, IMDG, IATA | Void |
| · Environmental hazards: | |
| · Marine pollutant: | No |
| · Special precautions for user | Not applicable. |
| · Transport in bulk according to Annex II of Marpol and the IBC Code | Not applicable. |
| · UN "Model Regulation": | Void |

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.

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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

Flam. Liq. 3: Flammable liquids – Category 3

Acute Tox. 5: Acute toxicity – Category 5

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. 1A: Skin sensitisation – Category 1A

Carc. 2: Carcinogenicity – Category 2

Repr. 2: Reproductive toxicity – Category 2

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

Asp. Tox. 1: Aspiration hazard – Category 1

Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1

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

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

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