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

Printing date 04.03.2023 Version number 21 (replaces version 20) Revision: 04.03.2023

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

· 1.1 Product identifier

Trade name MC-DUR 2210 - Komponente B

· Article number: 3746

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 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:

· 1.4 Emergency telephone

number:

msds@mc-bauchemie.de

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

Skin Irrit. 2 H315 Causes skin irritation.

Eye Irrit. 2 H319 Causes serious eye irritation.

Resp. Sens. 1 H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Skin Sens. 1 H317 May cause an allergic skin reaction.
Carc. 2 H351 Suspected of causing cancer.

STOT SE 3 H335 May cause respiratory irritation.

STOT RE 2 H373 May cause damage to organs through prolonged or repeated exposure.

· 2.2 Label elements

· Labelling according to

**Regulation (EC) No 1272/2008** The product is classified and labelled according to the GB CLP regulation.

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· Hazard pictograms

SHS07 GHS08

· Signal word Danger

Hazard-determining

components of labelling: diphenylmethanediisocyanate,isomeres and homologues

diphenylmethane-4,4'-di-isocyanante diphenylmethane-2,2'-diisocyanate diphenylmethane-2,4'-diisocyanate

· Hazard statements H315 Causes skin irritation.

H319 Causes serious eye irritation.

H334 May cause allergy or asthma symptoms or breathing

difficulties if inhaled.

H317 May cause an allergic skin reaction. H351 Suspected of causing cancer. H335 May cause respiratory irritation.

H373 May cause damage to organs through prolonged or repeated

exposure.

• Precautionary statements P260 Do not breathe dust/fume/gas/mist/vapours/

spray

P280 Wear protective gloves/protective clothing/eye

protection/face protection/hearing protection.

P284 [In case of inadequate ventilation] wear

respiratory protection.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for

several minutes. Remove contact lenses, if

present and easy to do. Continue rinsing.

P342+P311 If experiencing respiratory symptoms: Call a

POISON CENTER/doctor.

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:** Mixture consisting of the following components.

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Dan	(65	ntd. of page 2
Dangerous components:		
CAS: 9016-87-9	diphenylmethanediisocyanate,isomeres and homologues Resp. Sens. 1, H334; Carc. 2, H351; STOT RE 2, H373; Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317; STOT SE 3, H335, EUH204 Specific concentration limits: Eye Irrit. 2; H319: $C \ge 5$ % Skin Irrit. 2; H315: $C \ge 5$ % Resp. Sens. 1; H334: $C \ge 0.1$ % STOT SE 3; H335: $C \ge 5$ %	60-80%
CAS: 101-68-8	diphenylmethane-4,4'-di-isocyanante	≥5-<10%
EINECS: 202-966-0 Reg.nr.: 01-2119457014-47	Resp. Sens. 1, H334; Carc. 2, H351; STOT RE 2, H373; Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317; STOT SE 3, H335, EUH204 Specific concentration limits: Eye Irrit. 2; H319: C ≥ 5 % Skin Irrit. 2; H315: C ≥ 5 % Resp. Sens. 1; H334: C ≥ 0.1 % STOT SE 3; H335: C ≥ 5 %	20-11076
CAS: 5873-54-1 EINECS: 227-534-9	diphenylmethane-2,4'-diisocyanate Resp. Sens. 1, H334; Carc. 2, H351; STOT RE 2, H373; Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317; STOT SE 3, H335, EUH204 Specific concentration limits: Eye Irrit. 2; H319: $C \ge 5$ % Skin Irrit. 2; H315: $C \ge 5$ % Resp. Sens. 1; H334: $C \ge 0.1$ % STOT SE 3; H335: $C \ge 5$ %	≥5-<10%
CAS: 2530-83-8 EINECS: 219-784-2	[3-(2,3-epoxypropoxy)propyl]trimethoxysilane Eye Dam. 1, H318	≥1-<2.5%
CAS: 2536-05-2 EINECS: 219-799-4	diphenylmethane-2,2'-diisocyanate Resp. Sens. 1, H334; Carc. 2, H351; STOT RE 2, H373; Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317; STOT SE 3, H335, EUH204 Specific concentration limits: Eye Irrit. 2; H319: C ≥ 5 % Skin Irrit. 2; H315: C ≥ 5 % Resp. Sens. 1; H334: C ≥ 0.1 % STOT SE 3; H335: C ≥ 5 %	<0.1%

## **SECTION 4: First aid measures**

- · 4.1 Description of first aid measures
- General information Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

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• After inhalation Supply fresh air and call for doctor for safety reasons.

In case of unconsciousness bring patient into stable side position

for transport.

· After skin contact Instantly wash with water and soap and rinse thoroughly.

· After eye contact Rinse opened eye for several minutes under running water. If

symptoms persist, consult doctor.

· After swallowing In case of persistent symptoms consult doctor.

· 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 No further relevant information available.

· 5.3 Advice for firefighters

• **Protective equipment:** Put on breathing apparatus.

### SECTION 6: Accidental release measures

 6.1 Personal precautions, protective equipment and

emergency procedures Not required.

· 6.2 Environmental

precautions: No special measures required.

· 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.

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· 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: No special requirements.

Information about storage in

one common storage facility: Not required.

· Further information about

**storage conditions:** Keep container tightly sealed.

· Storage class 10

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

### SECTION 8: Exposure controls/personal protection

#### · 8.1 Control parameters

<ul> <li>Components with critical values that require monitoring at the workp</li> </ul>	lace:
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#### 9016-87-9 diphenylmethanediisocyanate, isomeres and homologues

WEL Short-term value: 0.07 mg/m³ Long-term value: 0.02 mg/m³

Sen; as -NCO

### 101-68-8 diphenylmethane-4,4'-di-isocyanante

WEL Short-term value: 0.07 mg/m³ Long-term value: 0.02 mg/m³

Sen; as -NCO

## 5873-54-1 diphenylmethane-2,4'-diisocyanate

WEL Short-term value: 0.07 mg/m³
Long-term value: 0.02 mg/m³

Sen; as -NCO

#### 2536-05-2 diphenylmethane-2,2'-diisocyanate

WEL Short-term value: 0.07 mg/m³ Long-term value: 0.02 mg/m³

Sen: as -NCO

#### · DNELs

### 9016-87-9 diphenylmethanediisocyanate, isomeres and homologues

Inhalative DNEL 0.05 mg/m³ (ArL)

#### 101-68-8 diphenylmethane-4,4'-di-isocyanante

Dermal DNEL 50 mg/kg bw/day (Ark)
Inhalative DNEL 0.05 mg/m³ (ArL)

5873-54-1 diphenylmethane-2,4'-diisocyanate

Inhalative DNEL 0.05 mg/m³ (ArL)

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## (Contd. of page 5) · PNECs 9016-87-9 diphenylmethanediisocyanate, isomeres and homologues PNEC 1 mg/l (Sewage Treatment Plant) 0.1 mg/l (Mew) 1 mg/l (Suw) PNEC 1 mg/kg dwt (Bod) 101-68-8 diphenylmethane-4,4'-di-isocyanante PNEC 1 mg/l (Sewage Treatment Plant) 0.1 mg/l (Mew) 1 mg/l (Suw) PNEC 1 mg/kg dwt (Bod) 5873-54-1 diphenylmethane-2,4'-diisocyanate PNEC 1 mg/l (Sewage Treatment Plant) 0.1 mg/l (Mew) 1 mg/l (Suw) PNEC 1 mg/kg dwt (Bod) Ingredients with biological limit values: 101-68-8 diphenylmethane-4,4'-di-isocyanante BMGV 1 umol creatinine/mol Medium: urine Sampling time: At the end of the period od exposure Parameter: isocyanate-derived diamine 5873-54-1 diphenylmethane-2,4'-diisocyanate BMGV 1 µmol creatinine/mol Medium: urine Sampling time: At the end of the period od exposure Parameter: isocyanate-derived diamine

2536-05-2 diphenylmethane-2,2'-diisocyanate

BMGV 1 µmol creatinine/mol

Medium: urine

Sampling time: At the end of the period od exposure

Parameter: isocyanate-derived diamine

· Additional information:

The lists that were valid during the compilation were used as basis.

· 8.2 Exposure controls

Appropriate engineering

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.

Do not inhale gases / fumes / aerosols.

Avoid contact with the eyes and skin.

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· Hand protection Protective gloves.

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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/face protection Safety glasses

Tightly sealed safety glasses. Protective work clothing.

### **SECTION 9: Physical and chemical properties**

· 9.1 Information on basic physical and chemical properties

· General Information

· Body protection:

Colour: Whitish
 Smell: Characteristic
 Melting point/freezing point: Not determined

· Boiling point or initial boiling point and

boiling range 190 °C

Flash point: 201 °C

Auto-ignition temperature: 400 °C

pH Not applicable.

Not determined.

· Viscosity:

Kinematic viscositydynamic:Not determined.Not determined.

· Solubility

· Water: Not miscible or difficult to mix

· Steam pressure: Not determined.

· Density and/or relative density

Density at 20 °C 1.2 g/cm<sup>3</sup>

· 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.

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Information with regard to physical hazard

classes

Explosives
Flammable gases
Aerosols
Oxidising gases
Gases under pressure
Flammable liquids
Flammable solids
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
 Oxidising solids
 Organic peroxides
 Corrosive to metals
 Desensitised explosives

## SECTION 10: Stability and reactivity

• 10.1 Reactivity No further relevant information available.

· 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 Based on available data, the classification criteria are not met.

· LD/LC50 values that are relevant for classification:

9016-87-9 diphenylmethanediisocyanate, isomeres and homologues

Oral LD50 >10000 mg/kg (Rat)

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Dermal	LD50	>5000 mg/kg (Rab)		
Inhalative	LC50/4 h	~450 mg/l (Rat)		
101-68-8	101-68-8 diphenylmethane-4,4'-di-isocyanante			
Oral	LD50	>10000 mg/kg (rat)		
Dermal	LD50	>9400 mg/kg (rabbit)		
2530-83-8 [3-(2,3-epoxypropoxy)propyl]trimethoxysilane				
Oral	LD50	8030 mg/kg (rat)		
Dermal	LD50	4248 mg/kg (rabbit)		

Skin corrosion/irritation
 Serious eye damage/irritation
 Causes skin irritation.
 Causes serious eye irritation.

· Respiratory or skin

sensitisation May cause allergy or asthma symptoms or breathing difficulties if

inhaled.

May cause an allergic skin reaction.

• Germ cell mutagenicity Based on available data, the classification criteria are not met.

· Carcinogenicity Suspected of causing cancer.

· Reproductive toxicity Based on available data, the classification criteria are not met.

· STOT-single exposure May cause respiratory irritation.

· STOT-repeated exposure May cause damage to organs through prolonged or repeated

exposure.

· 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.

## **SECTION 12: Ecological information**

#### · 12.1 Toxicity

· Aquatic to	· Aquatic toxicity:				
101-68-8 d	101-68-8 diphenylmethane-4,4'-di-isocyanante				
EC50/24h	>1000 mg/l (Daphnia magna)				
LC50/96h	>1000 mg/l (Brachydanio rerio)				
NOEC	>1000 mg/l (Eisenia foetida)				
	>10 mg/l (Daphnia magna)				
2530-83-8	2530-83-8 [3-(2,3-epoxypropoxy)propyl]trimethoxysilane				
LC50/96h	55 mg/l (Cyp)				
EC50/48h	473 mg/l (Daphnia magna)				
ErC50/72h	255 mg/l (Scenedesmus subspicatus)				

12.2 Persistence and

**degradability** No further relevant information available.

· 12.3 Bioaccumulative

potential No further relevant information available.

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• **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.

· Uncleaned packagings:

• Recommendation: Disposal must be made according to official regulations.

#### **SECTION 14: Transport information** · 14.1 UN number or ID number · ADR, ADN, IMDG, IATA Void · 14.2 UN proper shipping name · ADR, ADN, IMDG, IATA Void · 14.3 Transport hazard class(es) · ADR, ADN, IMDG, IATA · Class Void 14.4 Packing group · ADR, IMDG, IATA Void · 14.5 Environmental hazards: · Marine pollutant: No · 14.6 Special precautions for user Not applicable. · 14.7 Maritime transport in bulk according to Not applicable. IMO instruments UN "Model Regulation": Void

### **SECTION 15: Regulatory information**

· 15.1 Safety, health and environmental regulations/

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· legislation specific for the substance or mixture

No further relevant information available.

· 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	H315	Causes skin irritation.
•	H317	May cause an allergic skin reaction.
	U219	Causes serious eve damage

H318 Causes serious eye damage. H319 Causes serious eye irritation.

H332 Harmful if inhaled.

H334 May cause allergy or asthma symptoms or breathing

difficulties if inhaled.

H335 May cause respiratory irritation.H351 Suspected of causing cancer.

H373 May cause damage to organs through prolonged or

repeated exposure.

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 (ÚK 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 Skin Irrit. 2: Skin corrosion/irritation – Category 2

Eye Dam. 1: Serious eye damage/eye irritation – Category 1 Eye Irrit. 2: Serious eye damage/eye irritation – Category 2 Resp. Sens. 1: Respiratory sensitisation – Category 1

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
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\* Data compared to the previous version altered.

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