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

Printing date 11.08.2023 Version number 20 (replaces version 19) Revision: 11.08.2023

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

· 1.1 Product identifier

Trade name MC-Injekt 2300 NV - Komponente B

· Article number: 1046

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

Injektion

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

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

GHS07 GHS0

· Signal word Danger

Hazard-determining

components of labelling: diphenylmethanediisocyanate,isomeres and homologues

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

If experiencing respiratory symptoms: Call a

POISON CENTER/doctor.

P403+P233 Store in a well-ventilated place. Keep container

tightly closed.

· Additional information: Contains isocyanates. May produce an allergic reaction.

P342+P311

As from 24 August 2023 adequate training is required before

industrial or professional use.

· 2.3 Other hazards

· Results of PBT and vPvB assessment

PBT: Not applicable.vPvB: Not applicable.

### **SECTION 3: Composition/information on ingredients**

· 3.1 Substances

· CAS No. Designation: 101-68-8 diphenylmethane-4,4'-di-isocyanante

· Identification number(s):

EC number: 202-966-0 615-005-00-9

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· 3.2 Mixtures

· **Description:** Resin mixture.

Mixture consisting of the following components.

	Mixture consisting of the following components.	
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: $C \ge 5$ %	30-60%
CAS: 101-68-8 EINECS: 202-966-0 Reg.nr.: 01-2119457014-47	diphenylmethane-4,4'-di-isocyanante 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: $C \ge 5$ %	10-30%
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: $C \ge 5$ %	10-30%
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: $C \ge 5$ % Skin Irrit. 2; H315: $C \ge 5$ % Resp. Sens. 1; H334: $C \ge 0.1$ % STOT SE 3; H335: $C \ge 5$ %	≥1-<2.5%
· Additional information	STOT SE 3; H335: $C \ge 5$ %	

· Additional information

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

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

· 4.1 Description of first aid measures

General information Take affected persons into the open air.

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Seek medical treatment.

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the

accident.

• 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 Call a doctor immediately.

Rinse opened eye for several minutes under running water. If

symptoms persist, consult doctor.

· After swallowing

Call a doctor immediately.

· 4.2 Most important symptoms and effects, both acute and

delaved

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 Formation of toxic gases is possible during heating or in case of

tire

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.

· 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

mergency procedures Wear protective clothing.

· 6.2 Environmental

precautions: Do not allow product to reach sewage system or water bodies.

· 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.

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· 6.4 Reference to other

See Section 7 for information on safe handling

sections

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: No special requirements.

Information about storage in

one common storage facility: Not required.

Further information about

storage conditions: Keep container tightly sealed.

· Storage class

· 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:

9016-87-9 diphenylmethanediisocyanate, isomeres and homologues

WEL Short-term value: 0.07 mg/m<sup>3</sup> 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/m<sup>3</sup> Long-term value: 0.02 mg/m<sup>3</sup>

Sen; as -NCO

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

WEL | Short-term value: 0.07 mg/m³ Long-term value: 0.02 mg/m<sup>3</sup>

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

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DNELS		
	7-9 diphenylmethanediisocyanate,isomeres and homologues	
	ive DNEL 0.05 mg/m³ (ArL)	
	-8 diphenylmethane-4,4'-di-isocyanante	
Derma		
	ive DNEL 0.05 mg/m³ (ArL)	
	4-1 diphenylmethane-2,4'-diisocyanate	
Inhalat	ive DNEL 0.05 mg/m³ (ArL)	
PNEC	;	
9016-8	7-9 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)	
5873-5	4-1 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)	
Ingred	ients with biological limit values:	
101-68	-8 diphenylmethane-4,4'-di-isocyanante	
BMGV	1 μmol creatinine/mol	
	Medium: urine	
	Sampling time: At the end of the period od exposure Parameter: isocyanate-derived diamine	
5873-5	4-1 diphenylmethane-2,4'-diisocyanate	
	1 μmol creatinine/mol	
	Medium: urine	
	Sampling time: At the end of the period od exposure	
	Parameter: isocyanate-derived diamine	
	5-2 diphenylmethane-2,2'-diisocyanate	
BIMGV	1 μmol creatinine/mol Medium: urine	
	Sampling time: At the end of the period od exposure	
	Parameter: isocyanate-derived diamine	

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8.2 Exposure controls
Appropriate engineering

controls No further data; see section 7.

· Individual protection measures, such as personal protective equipment

· General protective and

hygienic measures Use skin protection cream for preventive skin protection.

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.

· Breathing equipment: Respiratory protection is required at inadequately ventilated

workplaces and during spray processing. Fresh air masks or combination filters A2-P2 are recommended for short-term work.

• Hand protection Conditionally suitable materials for protective gloves; EN 374-3:

Nitrile rubber - NBR: Thickness  $\geq 0.35$ mm.

Only suitable for splash protection. Only suitable for short-term exposure. In case of contamination, the protective gloves must be

changed immediately. Nitrile rubber, NBR

· Material of gloves

· 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.

· Body protection: Protective work clothing.

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

· 9.1 Information on basic physical and chemical properties

· General Information

· Auto-ignition temperature:

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

Boiling point or initial boiling point and

**boiling range** 1 9 0 ° C ( 9 0 1 6 - 8 7 - 9

diphenylmethanediisocyanate,isomeres and

homologues)

· Flash point: >200 °C

4 0 0 ° C ( 9 0 1 6 - 8 7 - 9

diphenylmethanediisocyanate,isomeres and

homologues) Not determined.

Viscosity:

Not determined.

• Kinematic viscosity
• dynamic at 20 °C:

Not determ
66 mPas

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· Solubility

· Water: Not miscible or difficult to mix

· Steam pressure at 25 °C: 0 hPa

· Density and/or relative density

· Density at 20 °C 1.23 g/cm³

· 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.

Molecular weight 360 g/mol

· Information with regard to physical hazard

classes

Void · Explosives · Flammable gases Void · Aerosols Void · Oxidising gases Void Gases under pressure Void Flammable liquids Void 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

flammable gases in contact with water

Oxidising liquids
Oxidising solids
Organic peroxides
Corrosive to metals
Desensitised explosives
Void

### **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 Violent reaction with water at high temperatures

Reacts with amines

• 10.4 Conditions to avoid No further relevant information available. • 10.5 Incompatible materials: No further relevant information available.

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· 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:

Oral	LD50	>10000 mg/kg (Rat)
Dermal	LD50	>5000 mg/kg (Kan)
Inhalative	LC50/4 h	~450 mg/l (Rat)

Oral	LD50	>10000 mg/kg (Rat)
	LD50	>5000 mg/kg (Rab)
Inhalative	LC50/4 h	~450 mg/l (Rat)

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

Oral	LD50	>10000 mg/kg (rat)
Dermal	LD50	>9400 mg/kg (rabbit)

· Skin corrosion/irritation Causes skin irritation.

· Serious eye damage/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 toxicity:

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

EC50/24h >1000 mg/l (Daphnia magna)

LC50/96h >1000 mg/l (Brachydanio rerio)

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NOEC >1000 mg/l (Eisenia foetida) >10 mg/l (Daphnia magna)

· 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**

SECTION 14: Transport information

· 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:

· Marine pollutant:

• Recommendation: Empty contaminated packagings thoroughly. They can be recycled

after thorough and proper cleaning.

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

No

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· 14.6 Special precautions for user	Not applicable.	
· 14.7 Maritime transport in bulk accord IMO instruments	<b>ling to</b> Not applicable.	
· UN "Model Regulation":	Void	

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

· 15.1 Safety, health and environmental regulations/ legislation specific for the substance or mixture · 15.2 Chemical safety

assessment:

No further relevant information available.

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.
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May cause an allergic skin reaction. H317

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.

RID: Règlement international concernant le transport des marchandises Abbreviations and acronyms: 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)

LC50: Lethal concentration, 50 percent

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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 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

\* Data compared to the previous version altered.

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