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

Printing date 11.08.2023 Version number 32 Revision: 11.08.2023

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

· Product identifier

· Trade name MC-Injekt 2300 - Komponente B

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

· 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. 4 H332 Harmful if inhaled.
Skin Irrit. 2 H315 Causes skin irritation.

Serious eye damage/irritation – Category 2A 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.

· Label elements

• GHS label elements The product is classified and labelled according to the Globally

Harmonised System (GHS).

· Hazard pictograms



Danger



GHS07 GHS08

Signal word

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Hazard-determining

components of labelling: diphenylmethane-4,4'-di-isocyanante

diphenylmethane-2.4'-diisocyanate

diphenylmethanediisocyanate,isomeres and homologues

diphenylmethane-2,2'-diisocyanate

· Hazard statements Harmful if inhaled.

Causes skin irritation.

Causes serious eye irritation.

May cause allergy or asthma symptoms or breathing difficulties if

inhaled.

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

May cause damage to organs through prolonged or repeated

exposure.

• **Precautionary statements** Do not breathe dust/fume/gas/mist/vapours/spray.

Wear protective gloves/protective clothing/eye protection/face

protection.

[In case of inadequate ventilation] wear respiratory protection.

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.

Store in a well-ventilated place. Keep container tightly closed.

· Other hazards

· Results of PBT and vPvB assessment

PBT: Not applicable.vPvB: Not applicable.

#### 3 Composition/information on ingredients

· Chemical characterisation: Mixtures

• **Description:** Active substance with propellant.

Mixture consisting of the following components.

9	components:	
101-68-8	diphenylmethane-4,4'-di-isocyanante	30-60%
	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	
5873-54-1	diphenylmethane-2,4'-diisocyanate	30-60%
	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	
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28553-12-0	diisononyl phthalate	10-30%		
9016-87-9	diphenylmethanediisocyanate,isomeres and homologues	10-30%		
	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			
2536-05-2	diphenylmethane-2,2'-diisocyanate	≥1-<2.5%		
	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			
 · Additional i	information For the wording of the listed hazard phrases refer to sec	tion 16.		

# 4 First aid measures

· Description of first aid measures

• General information Instantly remove any clothing soiled by the product.

Take affected persons into the open air.

No further relevant information available.

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.

· Information for doctor

· Most important symptoms

and effects, both acute and delayed

· Indication of any immediate

medical attention and special

treatment needed No further relevant information available.

## 5 Firefighting measures

· Extinguishing media

• Suitable extinguishing agents CO2, extinguishing powder or water jet. Fight larger fires with water jet or alcohol-resistant foam.

· Special hazards arising from

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)

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· Advice for firefighters

• Protective equipment: Wear self-contained breathing apparatus.

## 6 Accidental release measures

· Personal precautions, protective equipment and

emergency procedures Ensure adequate ventilation

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

• Environmental precautions: Prevent material from reaching sewage system, holes and cellars.

· 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.

• 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.

## 7 Handling and storage

· Handling

• 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.

· 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.

· Storage class 10

· **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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	Co	ntro	l į	oal	rai	me	ters
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101-68-8 diphenyln	nethane-4,4'-di-isocyanante
PEL (USA)	Ceiling limit: 0.2 mg/m³, 0.02 ppm
REL (USA)	Long-term value: 0.05 mg/m³, 0.005 ppm Ceiling limit: 0.2* mg/m³, 0.02* ppm *10-min
TLV (USA)	Long-term value: 0.005 ppm
WEL (Great Britain)	1
5873-54-1 diphenyl	methane-2,4'-diisocyanate
WEL (Great Britain)	Short-term value: 0.07 mg/m³ Long-term value: 0.02 mg/m³ Sen; as -NCO
28553-12-0 diisono	nyl phthalate
WEL (Great Britain)	Long-term value: 5 mg/m³
9016-87-9 diphenyl	methanediisocyanate,isomeres and homologues
WEL (Great Britain)	Short-term value: 0.07 mg/m³ Long-term value: 0.02 mg/m³ Sen; as -NCO
2536-05-2 diphenyl	methane-2,2'-diisocyanate
WEL (Great Britain)	Short-term value: 0.07 mg/m³ Long-term value: 0.02 mg/m³ Sen; as -NCO
DNELs	
101-68-8 diphenyln	nethane-4,4'-di-isocyanante
Dermal DNEL 50	mg/kg bw/day (Ark)
Inhalative DNEL 0.	05 mg/m³ (ArL)
5873-54-1 diphenyl	lmethane-2,4'-diisocyanate
Inhalative DNEL 0.	05 mg/m³ (ArL)
9016-87-9 diphenyl	Imethanediisocyanate,isomeres and homologues
Inhalative DNEL 0.	05 mg/m³ (ArL)
PNECs	
101-68-8 diphenyln	nethane-4,4'-di-isocyanante
PNEC 1 mg/l (Sewa	age Treatment Plant)
0.1 mg/l (Me	w)
1 mg/l (Suw)	
PNEC 1 mg/kg dwt	(Bod)



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0.1 mg/l (Mew)

1 mg/l (Suw)

PNEC 1 mg/kg dwt (Bod)

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)

Ingredients with biological limit values:

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

BMGV (Great Britain) 1 µmol 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 (Great Britain) 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 (Great Britain) 1 µmol creatinine/mol

Medium: urine

Sampling time: At the end of the period od exposure

Parameter: isocyanate-derived diamine

The lists that were valid during the compilation were used as basis. · Additional information:

· Exposure controls

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.

Respiratory protection is required at inadequately ventilated Breathing equipment:

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

· Protection of hands: Conditionally suitable materials for protective gloves; EN 374-3:

Nitrile rubber - NBR: Thickness > 0.35mm.

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.

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Safety glasses · Eye protection:

Tightly sealed safety glasses. Protective work clothing.

Not determined.

# 9 Physical and chemical properties

· Information on basic physical and chemical properties

· General Information

· Body protection:

· Appearance:

Form: Fluid Colour: Dark brown · Smell: Characteristic · pH-value:

· Change in condition

Melting point/freezing point: Not determined

Initial boiling point and boiling range: 190 °C

>200 °C · Flash point:

· Auto-ignition temperature: 400 °C

· Self-inflammability: Product is not selfigniting.

· Explosive properties: Product is not explosive.

· Critical values for explosion:

<0.1 Vol % Lower: Upper: 0.2 Vol %

· Steam pressure at 219 °C: 2.6 hPa

· Density at 20 °C 1.16 g/cm<sup>3</sup>

· Solubility in / Miscibility with

Water: Hydrolized

· Viscosity:

dynamic: Not determined. kinematic at 20 °C: 14 s (DIN 53211/4)

Other information

No further relevant information available.

# 10 Stability and reactivity

Reactivity No further relevant information available.

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· Chemical stability

· Thermal decomposition / conditions to be avoided:

No decomposition if used according to specifications.

· Possibility of hazardous

reactions

Reacts with amines

· Conditions to avoid Incompatible materials: No further relevant information available. No further relevant information available.

Hazardous decomposition

products:

No dangerous decomposition products known

# 11 Toxicological information

- Information on toxicological effects
- · Acute toxicity

· I D/I C50	values tha	nt are relevant for classification:
101-68-8	aipnenyin	nethane-4,4'-di-isocyanante
Oral	LD50	>10000 mg/kg (rat)
Dermal	LD50	>9400 mg/kg (rabbit)
28553-12-	0 diisono	nyl phthalate
Oral	LD50	10000 mg/kg (rat)
9016-87-9	diphenyl	methanediisocyanate,isomeres and homologues
Oral	LD50	>10000 mg/kg (Rat)
Dermal	LD50	>5000 mg/kg (Rab)
Inhalative	LC50/4 h	~450 mg/l (Rat)
2536-05-2	diphenyl	methane-2,2'-diisocyanate
Inhalative	LC50/4 h	0.527 mg/l (rat)
<b>.</b> .	:44 - EE-	·

· Primary irritant effect:

Irritant for skin and mucous membranes. · Skin corrosion/irritation

· Serious eye damage/irritation Irritant effect.

· Respiratory or skin

information:

sensitisation Sensitization possible by inhalation.

Sensitization possible by skin contact.

· Additional toxicological

The product shows the following dangers according to the calculation method of the General EC Classification Guidelines for

Preparations as issued in the latest version:

Harmful

Irritant

· CMR effects (carcinogenity, mutagenicity and toxicity for

Carc. 2 reproduction)



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## 12 Ecological information

· Toxicity

#### · Aquatic toxicity:

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

>10 mg/l (Daphnia magna)

EC50/24h >1000 mg/l (Daphnia magna) LC50/96h >1000 mg/l (Brachydanio rerio) NOEC >1000 mg/l (Eisenia foetida)

# 28553-12-0 diisononyl phthalate

EC50/72h 88 mg/l (algae)

LC50/96h 102 mg/l (Danio rerio) EC50/48h 74 mg/l (Daphnia magna) NOEC 101 mg/l (Daphnia magna)

- Persistence and degradability No further relevant information available.
- Behaviour in environmental systems:

Bioaccumulative potential
 Mobility in soil
 No further relevant information available.
 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. · **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

· ADR, ADN, IMDG, IATA Void

· UN proper shipping name

· ADR, ADN, IMDG, IATA Void

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Transport hazard class(es)		
ADR, ADN, IMDG, IATA Class	Void	
Packing group ADR, IMDG, IATA	Void	
Environmental hazards: Marine pollutant:	No	
Special precautions for user	Not applicable.	
Transport in bulk according to Anr Marpol and the IBC Code	n <b>ex II of</b> 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.

#### 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

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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
Serious eye damage/irritation – Category 2A: Serious eye damage/eye irritation –

Category 2A

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.