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

Printing date 15.04.2025 Version number 43 (replaces version 42) Revision: 15.04.2025

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

· 1.1 Product identifier

· Trade name MC-Injekt 2300 flow - Komponente B

3041 · Article number:

· 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

· 1.3 Details of the supplier of the safety data sheet

MC-Bauchemie Müller GmbH & Co. KG Manufacturer/Supplier:

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

Tel.: +1 872 5888271 (MCR)

msds@mc-bauchemie.de

## **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 CLP

regulation.

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· Hazard pictograms

SHS07 GHS08

· Signal word Danger

· Hazard-determining

components of labelling: Diphenylmethane diisocyanate, isomers and homologues

· 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/

sprav

P261 Avoid breathing 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.

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

tightly closed.

• Additional information: EUH204 Contains isocyanates. May produce an allergic reaction.

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**

· 3.2 Mixtures

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

Mixture consisting of the following components.

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· Dangerous compo	nents:	
CAS: 9016-87-9	Diphenylmethane diisocyanate, isomers and homologues	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, 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 ≥ 5 %	
CAS: 108-32-7	Propylene carbonate	10-30%
EINECS: 203-572-1	Eye Irrit. 2, H319	
· Additional informat	tion For the wording of the listed hazard phrases refer to section	on 16.

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

· 4.1 Description of first aid measures

General information Remove, decontaminate and dispose of soiled, soaked clothing

and shoes 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, preferably wash with polyethylene

glycol-based cleaner or clean with plenty of warm water and soap.

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.

· 4.2 Most important symptoms and effects, both acute and

delayed In:

Information for the doctor: The product irritates the respiratory tract and is a potential trigger for skin and respiratory sensitisation. Treatment of acute irritation or bronchial constriction is primarily symptomatic. Depending on the extent of exposure and the symptoms, prolonged medical treatment may be necessary.

· 4.3 Indication of any immediate medical attention

and special treatment needed No information available.

## **SECTION 5: Firefighting measures**

- · 5.1 Extinguishing media
- · Suitable extinguishing agents CO2, extinguishing powder or water jet. Fight larger fires with water jet or alcohol-resistant foam.

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· 5.2 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)

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:

· 6.3 Methods and material for

Prevent material from reaching sewage system, holes and cellars.

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 sufficient air exchange and/or extraction in the work areas. Air extraction is required for spray application.

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

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immediately.

· 7.2 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:

Store only in the original container.

Information about storage in

one common storage facility: Store away from foodstuffs.

· Further information about

storage conditions: None. · Storage class 12

· 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:

CAS: 9016-87-9 Diphenylmethane diisocyanate, isomers and homologues

OEL (Ireland) Short-term value: 0.07 mg/m<sup>3</sup>

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

as -NCO; Sens.

· DNELs

CAS: 9016-87-9 Diphenylmethane diisocyanate, isomers and homologues

Inhalative DNEL 0.05 mg/m³ (ArL)

· PNECs

CAS: 9016-87-9 Diphenylmethane diisocyanate, isomers and homologues

PNEC 1 mg/l (Sewage Treatment Plant)

0.1 mg/l (Mew) 1 mg/l (Freshwater)

PNEC 1 mg/kg dwt (Bod) · 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 section 7.

· Individual protection measures, such as personal protective equipment

· General protective and

Keep away from food, drink and animal feed. hygienic measures

Remove soiled, soaked clothing immediately. Wash hands before breaks and at the end of work.

Avoid contact with eyes and skin.

Respiratory protection required at insufficiently ventilated · Breathing equipment:

workplaces and when working with splashes. Fresh air masks or

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· Hand protection

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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.

Suitable materials for protective gloves; EN 374:

Butyl rubber, nitrile rubber, chloroprene rubber (neoprene).

Note: suitable materials that provide sufficient protection for industrial cleaning with aprotic polar solvents (according to IUPAC definition): butyl rubber.

In case of prolonged or frequently repeated contact, a glove with a protection class of 5 or higher is recommended (breakthrough time greater than 240 minutes according to EN374). For short-term contact, a glove with a protection class of 3 or higher is recommended (breakthrough time greater than 60 minutes according to EN374).

The thickness of the material is not the only criterion for the level of protection of a glove against a chemical substance. The protective effect also depends to a large extent on the type of glove material. Depending on the type and material, the thickness must be more than 0.35 mm to ensure adequate protection in the event of prolonged and frequent contact. Exceptions to this rule are multilayer gloves, which guarantee sufficient protection even with a thickness of less than 0.35 mm during prolonged wear. Other glove materials with a thickness of less than 0.35 mm only provide sufficient protection for short periods of wear.

For solvent-free products:

Example:

Polychloroprene - CR: thickness ≥0.5mm; breakthrough time >480min.

Nitrile rubber - NBR: thickness ≥0.35mm; breakthrough time ≥480min.

Butyl rubber - IIR: thickness  $\ge$ 0.5mm; breakthrough time  $\ge$ 480min. Fluoro rubber - FKM: thickness  $\ge$ 0.4mm; breakthrough time  $\ge$ 480min.

Recommendation: Dispose of contaminated gloves.

· Material of gloves

Polychloroprene - CR Nitrile rubber - NBR Butyl rubber - IIR Fluoro rubber - FKM

· Penetration time of glove material

Polychloroprene - CR: thickness  $\geq$ 0.5mm; breakthrough time  $\geq$ 480min.

Nitrile rubber - NBR: thickness ≥0.35mm; breakthrough time

≥480min.
Butyl rubber - IIR: thickness ≥0.5mm; breakthrough time ≥480min.

Butyl rubber - IIR: thickness ≥0.5mm; breakthrough time ≥480min. Fluoro rubber - FKM: Thickness ≥0.4mm; Breakthrough time >480min.

· Eye/face protection

Safety goggles with side protection in accordance with EN 166.

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· Body protection: Use chemical-resistant protective clothing.

In case of hypersensitivity of the skin, handling the product is not

recommended.

## SECTION 9: Physical and chemical properties

· 9.1 Information on basic physical and chemical properties

· General Information

Colour: Dark brown
 Smell: Characteristic
 Melting point/freezing point: Not determined

Boiling point or initial boiling point and

boiling range 190 °C (CAS: 9016-87-9 Diphenylmethane

diisocyanate, isomers and homologues)

· Flash point: Not applicable

· Auto-ignition temperature: 430 °C (CAS: 108-32-7 Propylene carbonate)

· **pH** Not determined.

· Viscosity:

· Kinematic viscosity Not determined.

· dynamic at 20 °C: 58 mPas

· Solubility

· Water: Hvdrolized

• Steam pressure at 20 °C: 0 hPa (CAS: 108-32-7 Propylene carbonate)

Density and/or relative density

· Density at 20 °C 1.08 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.

· Information with regard to physical hazard

classes

· Explosives Void · 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

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· 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.

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.

<ul> <li>LD/LC50 values that are relevant for classification</li> </ul>
-------------------------------------------------------------------------

### CAS: 9016-87-9 Diphenylmethane diisocyanate, isomers and homologues

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

#### CAS: 108-32-7 Propylene carbonate

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

· Primary irritant effect:

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.

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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: No further relevant information available.

· 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.

	amon production outside system.
· European	waste catalogue
08 00 00	WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS
08 01 00	wastes from MFSU and removal of paint and varnish
08 01 11*	waste paint and varnish containing organic solvents or other hazardous substances
HP4	Irritant - skin irritation and eye damage
HP5	Specific Target Organ Toxicity (STOT)/Aspiration Toxicity
HP7	Carcinogenic
HP13	Sensitising
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· 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, 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 accordi IMO instruments	i <b>ng 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** No further relevant information available.

· REGULATION (EC) No

1907/2006 ANNEX XVII Conditions of restriction: 3, 74

· DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II

None of the ingredients is listed.

· REGULATION (EU) 2019/1148

· Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))

None of the ingredients is listed.

· Annex II - REPORTABLE EXPLOSIVES PRECURSORS

None of the ingredients is listed.

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· Regulation (EC) No 273/2004 on drug precursors

None of the ingredients is listed.

Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors

None of the ingredients is listed.

· 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.

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.

Date of previous version: 18.10.2021

· Version number of previous

version: 42

· 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 (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 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

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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.