



BE SURE. BUILD SURE.

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

Printing date 27.05.2024

Version number 28 (replaces version 27)

Revision: 27.05.2024

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

#### · 1.1 Product identifier

· Trade name **MC-Injekt 2133**

· Article number: 5004

#### · 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

· 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.: +1 872 5888271 (MCR)

### 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**



GHS07 GHS08

· **Signal word**

*Danger*

· **Hazard-determining components of labelling:**

*diphenylmethanediisocyanate, isomeres 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/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:**

*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:**

*Resin mixture.*

*Mixture consisting of the following components.*

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### · **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 ≥ 5 % Skin Irrit. 2; H315: C ≥ 5 % Resp. Sens. 1; H334: C ≥ 0.1 % STOT SE 3; H335: C ≥ 5 %	50-70%
	2,2-Dimorpholinodiethyl ether Eye Irrit. 2, H319	<3%

### · **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** Immediately remove any clothing contaminated with the product.  
Take affected persons into the open air.  
Seek medical treatment.
- **After inhalation** Supply fresh air.  
Seek immediate medical advice.
- **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.

## SECTION 5: Firefighting measures

### · **5.1 Extinguishing media**

- **Suitable extinguishing agents** Use fire fighting measures that suit the environment.  
Extinguishing powder. Do not use water.

### · **For safety reasons unsuitable extinguishing agents**

Water.

### · **5.2 Special hazards arising from the substance or mixture**

Can be released in case of fire  
Carbon monoxide (CO)  
Nitrogen oxides (NO<sub>x</sub>)  
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.
- **Additional information** Cool endangered containers with water spray jet.

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Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

Collect contaminated fire fighting water separately. It must not enter drains.

### 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:**

Prevent material from reaching sewage system, holes and cellars.

· **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.

· **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:**

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**

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#### SECTION 8: Exposure controls/personal protection

##### · 8.1 Control parameters

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

**CAS: 9016-87-9 diphenylmethanediisocyanate, isomeres and homologues**

OEEL (Ireland)	Short-term value: 0.07 mg/m <sup>3</sup> Long-term value: 0.02 mg/m <sup>3</sup> as -NCO; Sens.
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##### · DNELs

**CAS: 9016-87-9 diphenylmethanediisocyanate, isomeres and homologues**

Inhalative	DNEL	0.05 mg/m <sup>3</sup> (ArL)
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##### · PNECs

**CAS: 9016-87-9 diphenylmethanediisocyanate, isomeres 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 hygienic measures**

Do not inhale gases / fumes / aerosols.  
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.

· **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 ≥ 0.35mm.  
Only suitable for splash protection. Only suitable for short-term exposure. In case of contamination, the protective gloves must be changed immediately.

· **Material of gloves**

Nitrile rubber, NBR

· **Penetration time of glove material**

The exact breakthrough time must be obtained from the protective glove manufacturer and must be observed.

· **Eye/face protection**

Not required.

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· **Body protection:** Protective work clothing.

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### SECTION 9: Physical and chemical properties

#### · 9.1 Information on basic physical and chemical properties

##### · General Information

- |   |  |
|---|--|
| · <b>Colour:</b>  | Dark brown   |
| · <b>Smell:</b>   | Characteristic   |
| · <b>Melting point/freezing point:</b>                            | Not determined   |
| · <b>Boiling point or initial boiling point and boiling range</b> | 190 °C (CAS: 9016-87-9 diphenylmethanediisocyanate, isomeres and homologues) |
| · <b>Flash point:</b>   | 201 °C   |
| · <b>pH</b>   | Not applicable.<br>Not determined.   |
| · <b>Viscosity:</b>   |  |
| · <b>Kinematic viscosity</b>                                      | Not determined.  |
| · <b>dynamic at 20 °C:</b>  | 400 mPas   |
| · <b>Solubility</b>   |  |
| · <b>Water:</b>   | Readily soluble  |
| · <b>Steam pressure at 20 °C:</b>                                 | 0 hPa (CAS: 166412-78-8 1,2-Cyclohexandicarbonsäurediisononylester)          |
| · <b>Density and/or relative density</b>                          |  |
| · <b>Density at 20 °C</b>   | 1.18 g/cm <sup>3</sup>   |

#### · 9.2 Other information

- |  |                              |
|--|------------------------------|
| · <b>Appearance:</b>   |                              |
| · <b>Form:</b>   | Fluid                        |
| · <b>Important information on protection of health and environment, and on safety.</b> |                              |
| · <b>Self-flammability:</b>  | Product is not selfigniting. |
| · <b>Explosive properties:</b>   | Product is not explosive.    |

#### · Information with regard to physical hazard classes

- |  |      |
|--|------|
| · <b>Explosives</b>                            | Void |
| · <b>Flammable gases</b>                       | Void |
| · <b>Aerosols</b>                              | Void |
| · <b>Oxidising gases</b>                       | Void |
| · <b>Gases under pressure</b>                  | Void |
| · <b>Flammable liquids</b>                     | Void |
| · <b>Flammable solids</b>                      | Void |
| · <b>Self-reactive substances and mixtures</b> | Void |
| · <b>Pyrophoric liquids</b>                    | Void |
| · <b>Pyrophoric solids</b>                     | Void |
| · <b>Self-heating substances and mixtures</b>  | 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.

· **LD/LC50 values that are relevant for classification:**

**CAS: 9016-87-9 diphenylmethanediisocyanate, isomeres and homologues**

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

**2,2-Dimorpholinodiethyl ether**

Oral	LD50	2025 mg/kg (rat)
Dermal	LD50	3038 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.

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- **Aspiration hazard** Based on available data, the classification criteria are not met.
- **11.2 Information on other hazards**

· **Endocrine disrupting properties**

CAS: 108-90-7 chlorobenzene

List II

### 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** For information on endocrine disrupting properties see section 11.
- **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.

· **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 according to IMO instruments**

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:**

19.10.2021

· **Version number of previous version:**

27

· **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.**

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