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

Printing date 12.04.2024

Version number 41 (replaces version 40)

Revision: 12.04.2024

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

#### 1.1 Product identifier

Trade name **MC-DUR LF 680 - Komponente B**

Article number: 4144

#### 1.2 Relevant identified uses of the substance or mixture and uses advised against

Sector of Use SU22 Professional uses: Public domain (administration, education, entertainment, services, craftsmen)

Product category PC9a Coatings and paints, thinners, paint removers

Process category PROC10 Roller application or brushing

Environmental release category

ERC8f Widespread use leading to inclusion into/onto article (outdoor)

ERC11a Widespread use of articles with low release (indoor)

Article category AC13 Plastic articles

Application of the substance / the mixture

Polyurethane lacquer

#### 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

Acute Tox. 4 H332 Harmful if inhaled.

Skin Sens. 1 H317 May cause an allergic skin reaction.

STOT SE 3 H335 May cause respiratory irritation.

#### 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

**Signal word**

Warning

**Hazard-determining components of labelling:**

Aliphatisches Polyisocyanat  
hexamethylene diisocyanate

**Hazard statements**

H332 Harmful if inhaled.  
H317 May cause an allergic skin reaction.  
H335 May cause respiratory irritation.

**Precautionary statements**

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.  
P280 Wear protective gloves.  
P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
P312 Call a POISON CENTER/doctor if you feel unwell.  
P403+P233 Store in a well-ventilated place. Keep container tightly closed.  
P405 Store locked up.  
EUH204 Contains isocyanates. May produce an allergic reaction.  
EUH205 Contains epoxy constituents. May produce an allergic reaction.

**Additional information:**

**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.

**Dangerous components:**

|  |  |         |
|--|--|---------|
| CAS: 28182-81-2  | Aliphatisches Polyisocyanat<br>Acute Tox. 4, H332; Skin Sens. 1, H317; STOT SE 3, H335, EUH204   | 80-100% |
| CAS: 822-06-0<br>EINECS: 212-485-8<br>Reg.nr.: 01-2119457571-37-0000 | hexamethylene diisocyanate<br>Acute Tox. 3, H331; Resp. Sens. 1, H334; Acute Tox. 4, H302; Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317; STOT SE 3, H335, EUH204<br>Specific concentration limits:<br>Resp. Sens. 1; H334: C ≥ 0.5 %<br>Skin Sens. 1; H317: C ≥ 0.5 % | <0.1%   |

**Additional information**

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

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### SECTION 4: First aid measures

#### 4.1 Description of first aid measures

- **General information** Remove soiled, soaked clothing 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, wash carefully with plenty of soap and water. 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

Advice for the doctor: Elementary aid, decontamination, symptomatic treatment.

#### 4.3 Indication of any immediate medical attention and special treatment needed

Therapeutic measures: No information available.

### SECTION 5: Firefighting measures

#### 5.1 Extinguishing media

- **Suitable extinguishing agents** CO<sub>2</sub>, extinguishing powder or water jet. Fight larger fires with water jet or alcohol-resistant foam.

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

No further relevant information available.

#### 5.3 Advice for firefighters

#### Protective equipment:

No special measures required.

### SECTION 6: Accidental release measures

#### 6.1 Personal precautions, protective equipment and emergency procedures

Not required.

#### 6.2 Environmental precautions:

Inform respective authorities in case product reaches water or sewage system.

#### 6.3 Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).  
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.

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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 immediately.

**Information about protection against explosions and fires:**

Keep ignition sources away - do not smoke.  
Protect from heat.  
Do not store near heat sources.

**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:**

Keep tightly closed in original packaging. Ventilate storage rooms well. Carefully close opened containers and store upright to prevent any leakage.

Storage temperature  $>5^{\circ}\text{C}$  and  $<30^{\circ}\text{C}$

**Information about storage in one common storage facility:**

May be stored together with hazardous substances of other classes up to 200 kg.

**Further information about storage conditions:**

None.

**Storage class**

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**7.3 Specific end use(s)**

No further relevant information available.

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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: 822-06-0 hexamethylene diisocyanate

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

###### DNELs

CAS: 28182-81-2 Aliphatisches Polyisocyanat

Inhalative DNEL 0.5 mg/m<sup>3</sup> (Workers) (long term local)  
1 mg/m<sup>3</sup> (kei) (acute local eff)

CAS: 822-06-0 hexamethylene diisocyanate

Inhalative DNEL 0.5 mg/m<sup>3</sup> (ArL)

###### PNECs

CAS: 28182-81-2 Aliphatisches Polyisocyanat

PNEC aqua 12.7 µg/l (Daphnia magna) (marine)  
PNEC 38.28 mg/l (kei) (STP)

CAS: 822-06-0 hexamethylene diisocyanate

PNEC 100 mg/l (Sewage Treatment Plant)  
0.0199 mg/l (Mew)  
0.199 mg/l (Freshwater)  
PNEC 8884 mg/kg dwt (Bod)  
4455 mg/kg dwt (Marine water sediment)  
44551 mg/kg dwt (Fresh water sediment)

###### Ingredients with biological limit values:

CAS: 822-06-0 hexamethylene 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 controls

No further data; see section 7.

###### Individual protection measures, such as personal protective equipment

###### General protective and hygienic measures

Do not smoke, eat or drink while working. Have eye wash equipment ready.  
Do not inhale gases/vapours/aerosols. Avoid contact with eyes and skin.  
Do not store food in the work area. Wash hands before breaks and at the end of work.

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- **Breathing equipment:** *Respiratory protection required at insufficiently ventilated workplaces and when working with splashes. Fresh air masks or 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.  
An nicht ausreichend entlüfteten Arbeitsplätzen und bei Spritzverarbeitung Atemschutz erforderlich. Empfohlen werden Frischluftmaske oder für kurzzeitige Arbeiten Kompinationsfilter A2-P2.*
- **Hand protection** *Bei überempfindlichkeit der Atemwege (Asthma, chronische Bronchitis) wird vom Umgang mit dem Produkt abgeraten.  
Suitable materials for protective gloves; EN 374:  
Butyl rubber - IIR: thickness  $\geq 0.5\text{mm}$ ; breakthrough time  $\geq 480\text{min}$ .  
Fluororubber - FKM: thickness  $\geq 0.4\text{mm}$ ; breakthrough time  $\geq 480\text{min}$ .  
Multi-layer glove - PE/EVAL/PE ; Breakthrough time  $\geq 480\text{ min}$ .  
Recommendation: Dispose of contaminated gloves.*
- **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.*
- **Penetration time of glove material** *Butyl rubber - IIR: thickness  $\geq 0.5\text{mm}$ ; breakthrough time  $\geq 480\text{min}$ .  
Fluoro rubber - FKM: thickness  $\geq 0.4\text{mm}$ ; breakthrough time  $\geq 480\text{min}$ .  
Multi-layer glove - PE/EVAL/PE ; Breakthrough time  $\geq 480\text{ min}$ .*
- **Eye/face protection** *Wear safety goggles/face protection.*
- **Body protection:** *Wear suitable protective clothing when working.  
In case of hypersensitivity of the skin, handling of the product is not recommended.*

## SECTION 9: Physical and chemical properties

- **9.1 Information on basic physical and chemical properties**
- **General Information**
- **Colour:** Colourless
- **Smell:** Characteristic
- **Melting point/freezing point:** Not determined
- **Boiling point or initial boiling point and boiling range** Not determined
- **Flash point:** 180 °C
- **pH** Not applicable.  
Not determined.

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- **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** Harmful if inhaled.

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

**CAS: 28182-81-2 Aliphatisches Polyisocyanat**

|      |      |                              |
|------|------|------------------------------|
| Oral | LD50 | >2500 mg/kg (rat) (OECD 423) |
|------|------|------------------------------|

|        |      |                              |
|--------|------|------------------------------|
| Dermal | LD50 | >2000 mg/kg (rat) (OECD 402) |
|--------|------|------------------------------|

**CAS: 822-06-0 hexamethylene diisocyanate**

|      |      |                 |
|------|------|-----------------|
| Oral | LD50 | 738 mg/kg (rat) |
|------|------|-----------------|

- **Skin corrosion/irritation** Based on available data, the classification criteria are not met.
- **Respiratory or skin sensitisation** May cause an allergic skin reaction.
- **Germ cell mutagenicity** Based on available data, the classification criteria are not met.
- **Carcinogenicity** Based on available data, the classification criteria are not met.
- **Reproductive toxicity** Based on available data, the classification criteria are not met.
- **STOT-single exposure** May cause respiratory irritation.
- **STOT-repeated exposure** Based on available data, the classification criteria are not met.
- **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:**

**CAS: 28182-81-2 Aliphatisches Polyisocyanat**

|           |   |
|-----------|---|
| ErC10/72h | 370 mg/l (Desmodesmus subspicatus) (EU C.3) |
|-----------|---|

|           |   |
|-----------|---|
| ErC50/72h | >1000 mg/l (Desmodesmus subspicatus) (EU C.3) |
|-----------|---|

- **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.

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- **12.6 Endocrine disrupting properties** *The product does not contain substances with endocrine disrupting properties.*
- **12.7 Other adverse effects**
- **Remark:** *Harmful to fish*
- **Additional ecological information:**
- **General notes:** *Harmful to aquatic organisms  
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:** *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

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

*No further relevant information available.*

· **Poisons Act**

· **Regulated explosives precursors**

*None of the ingredients is listed.*

· **Regulated poisons**

*None of the ingredients is listed.*

· **Reportable explosives precursors**

*None of the ingredients is listed.*

· **Reportable poisons**

*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**

- H302 Harmful if swallowed.
- H315 Causes skin irritation.
- H317 May cause an allergic skin reaction.
- H319 Causes serious eye irritation.
- H331 Toxic if inhaled.
- H332 Harmful if inhaled.
- H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
- H335 May cause respiratory irritation.
- EUH204 Contains isocyanates. May produce an allergic reaction.

· **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 (UK 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. 3: Acute toxicity – Category 3*

*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*

*STOT SE 3: Specific target organ toxicity (single exposure) – Category 3*

**\* Data compared to the  
previous version altered.**

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