



BE SURE. BUILD SURE.

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

Printing date 04.03.2023

Version number 25 (replaces version 24)

Revision: 04.03.2023

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

#### 1.1 Product identifier

Trade name **Konudur Flexfit - Komponente B**

Article number: 4306

#### 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 lacquer  
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

Acute Tox. 4 H332 Harmful if inhaled.

Eye Dam. 1 H318 Causes serious eye damage.

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

STOT SE 3 H335 May cause respiratory irritation.

Aquatic Chronic 3 H412 Harmful to aquatic life with long lasting effects.

#### 2.2 Label elements

##### Labelling according to

Regulation (EC) No 1272/2008 The product is classified and labelled according to the GB CLP regulation.

##### Hazard pictograms



GHS05 GHS07

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- **Signal word** Danger
- **Hazard-determining components of labelling:** Aliphatisches Polyisocyanat  
[3-(2,3-epoxypropoxy)propyl]trimethoxysilane  
aliphatic polyisocyanate 1  
aliphatic polyisocyanate 2  
Hexamethylendiisocyanat, Oligomerisationsprodukt (Uretdion Typ)  
Aliphatisches Polyisocyanat 3
- **Hazard statements** H332 Harmful if inhaled.  
H318 Causes serious eye damage.  
H317 May cause an allergic skin reaction.  
H335 May cause respiratory irritation.  
H412 Harmful to aquatic life with long lasting effects.
- **Precautionary statements** P261 Avoid breathing dust/fume/gas/mist/vapours/spray.  
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P310 Immediately call a POISON CENTER/doctor.  
P321 Specific treatment (see on this label).  
P362+P364 Take off contaminated clothing and wash it before reuse.  
P403+P233 Store in a well-ventilated place. Keep container tightly closed.
- **Additional information:** To avoid risks to human health and the environment, comply with the instructions for use.  
Contains isocyanates. May produce an allergic reaction.
- **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 Acute Tox. 4, H332; Skin Sens. 1, H317; STOT SE 3, H335, EUH204	≥20-≤30%
CAS: 164250-92-4	aliphatic polyisocyanate 1 Aquatic Chronic 2, H411; Acute Tox. 4, H332; Skin Sens. 1B, H317; STOT SE 3, H335	≥10-<20%
CAS: 29891-05-2	aliphatic polyisocyanate 2 Aquatic Chronic 2, H411; Acute Tox. 4, H332; Skin Sens. 1B, H317; STOT SE 3, H335	≥2.5-<10%

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EC number: 931-297-3 Reg.nr.: :01-2119488934-20-0000	Hexamethylendiisocyanat, Oligomerisationsprodukt (Uretidion Typ) Acute Tox. 4, H332; Skin Sens. 1, H317; STOT SE 3, H335	≥1-<5%
CAS: 2530-83-8 EINECS: 219-784-2	[3-(2,3-epoxypropoxy)propyl]trimethoxysilane Eye Dam. 1, H318	≥3-<5%
CAS: 1809331-98-3	Aliphatisches Polyisocyanat 3 Aquatic Chronic 2, H411; Acute Tox. 4, H332; Skin Sens. 1B, H317; STOT SE 3, H335	≥0.25-<0.5%
CAS: 2768-02-7 EINECS: 220-449-8	trimethoxyvinylsilane Flam. Liq. 3, H226; Skin Sens. 1B, H317	≥0.1-<0.5%

· **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**

Instantly remove any clothing soiled by the product.  
Take affected persons into the open air.  
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.

· **4.2 Most important symptoms and effects, both acute and delayed**

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**

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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- **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:** *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** *10*
- **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:** *The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.*

· **DNELs**

**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)

**Hexamethylendiisocyanat, Oligomerisationsprodukt (Uretdion Typ)**

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

· **PNECs**

**28182-81-2 Aliphatisches Polyisocyanat**

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

**Hexamethylendiisocyanat, Oligomerisationsprodukt (Uretdion Typ)**

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

· **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 item 7.*

- **Individual protection measures, such as 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.*

- **Hand protection**

*Protective gloves.*

- **Material of gloves**

*Nitrile rubber, NBR*

- **Penetration time of glove material**

*The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.  
Breakthrough time: > = 480 min*

- **Eye/face protection**

*Safety glasses  
Tightly sealed safety glasses.*

- **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

· Colour:	Dark brown
· Smell:	Characteristic
· Melting point/freezing point:	Not determined
· Boiling point or initial boiling point and boiling range	2230 °C (14808-60-7 Quartz (SiO <sub>2</sub> ))
· Flash point:	158 °C
· Auto-ignition temperature:	400 °C
· pH	Not determined.
· Viscosity:	
· Kinematic viscosity	Not determined.
· dynamic:	Not determined.
· Solubility	
· Water:	Hydrolized
· Steam pressure at 1732 °C:	13.5 hPa (14808-60-7 Quartz (SiO <sub>2</sub> ))
· Density and/or relative density	
· Density	Not determined

#### · 9.2 Other information

· Appearance:	
· Form:	Fluid
· Important information on protection of health and environment, and on safety.	
· Self-flammability:	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
· Substances and mixtures, which emit flammable gases in contact with water	Void
· Oxidising liquids	Void
· Oxidising solids	Void
· Organic peroxides	Void

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- **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** Harmful if inhaled.

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

**28182-81-2 Aliphatisches Polyisocyanat**

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

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

**164250-92-4 aliphatic polyisocyanate 1**

Oral LD50 >5000 mg/kg (rat)

**29891-05-2 aliphatic polyisocyanate 2**

Oral LD50 >5000 mg/kg (rat)

**Hexamethylendiisocyanat, Oligomerisationsprodukt (Uretidion Typ)**

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

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

**2530-83-8 [3-(2,3-epoxypropoxy)propyl]trimethoxysilane**

Oral LD50 8030 mg/kg (rat)

Dermal LD50 4248 mg/kg (rabbit)

**2768-02-7 trimethoxyvinylsilane**

Oral LD50 >5000 mg/kg (rat)

Dermal LD50 >3400 mg/kg (rabbit)

Inhalative LC50/4 h 2773 mg/l (rat)

- **Skin corrosion/irritation** Based on available data, the classification criteria are not met.
- **Serious eye damage/irritation** Causes serious eye damage.
- **Respiratory or skin sensitisation** May cause an allergic skin reaction.

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- **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**

128-37-0 Butylated hydroxytoluene

List II

**SECTION 12: Ecological information**

· **12.1 Toxicity**

· **Aquatic toxicity:**

**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)

**Hexamethylendiisocyanat, Oligomerisationsprodukt (Uretdion Typ)**

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

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

**2530-83-8 [3-(2,3-epoxypropoxy)propyl]trimethoxysilane**

LC50/96h 55 mg/l (Cyp)

EC50/48h 473 mg/l (Daphnia magna)

ErC50/72h 255 mg/l (Scenedesmus subspicatus)

**2768-02-7 trimethoxyvinylsilane**

LC50/96h >100 mg/l (Danio rerio)

191 mg/l (Oncorhynchus mykiss)

EC50 >1000 mg/l (Bak)

EC50/48h 168.7 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**

For information on endocrine disrupting properties see section 11.

· **12.7 Other adverse effects**

· **Additional ecological information:**

· **General notes:**

Do not allow product to reach ground water, water bodies or sewage system.

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Danger to drinking water if even small quantities leak into soil.

#### 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, IMDG, IATA** UN3082

**14.2 UN proper shipping name**

**ADR, IATA** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Aliphatisches Polyisocyanat 3)

**IMDG** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Aliphatisches Polyisocyanat 3, aliphatic polyisocyanate 1), MARINE POLLUTANT

**14.3 Transport hazard class(es)**

**ADR**

**Class** 9 (M6) Miscellaneous dangerous substances and articles.

**Label** 9

**IMDG, IATA**

**Class** 9 Miscellaneous dangerous substances and articles.

**Label** 9

**14.4 Packing group**

**ADR, IMDG, IATA** III

**14.5 Environmental hazards:**

**Marine pollutant:** Yes  
Symbol (fish and tree)  
**Special marking (ADR):** Symbol (fish and tree)  
**Special marking (IATA):** Symbol (fish and tree)

**14.6 Special precautions for user**

**Kemler Number:** Warning: Miscellaneous dangerous substances and articles.  
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· <b>EMS Number:</b>	F-A,S-F
· <b>Stowage Category</b>	A
· <b>14.7 Maritime transport in bulk according to IMO instruments</b>	Not applicable.
· <b>Transport/Additional information:</b>	
· <b>ADR</b>	
· <b>Limited quantities (LQ)</b>	5L
· <b>Excepted quantities (EQ)</b>	Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
· <b>Transport category</b>	3
· <b>Tunnel restriction code</b>	(-)
· <b>IMDG</b>	
· <b>Limited quantities (LQ)</b>	5L
· <b>Excepted quantities (EQ)</b>	Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
· <b>UN "Model Regulation":</b>	UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (ALIPHATISCHES POLYISOCYANAT 3), 9, III

**SECTION 15: Regulatory information**

- **15.1 Safety, health and environmental regulations/ legislation specific for the substance or mixture** No further relevant information available.
- **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**
  - H226 Flammable liquid and vapour.
  - H317 May cause an allergic skin reaction.
  - H318 Causes serious eye damage.
  - H332 Harmful if inhaled.
  - H335 May cause respiratory irritation.
  - H411 Toxic to aquatic life with long lasting effects.
  - EUH204 Contains isocyanates. May produce an allergic reaction.

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· **Department issuing data specification sheet:**

*Environment protection department.*

· **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*

*Flam. Liq. 3: Flammable liquids – Category 3*

*Acute Tox. 4: Acute toxicity – Category 4*

*Eye Dam. 1: Serious eye damage/eye irritation – Category 1*

*Skin Sens. 1: Skin sensitisation – Category 1*

*Skin Sens. 1B: Skin sensitisation – Category 1B*

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

*Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2*

*Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3*

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

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