



BE SURE. BUILD SURE.

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

Printing date 12.08.2023

Version number 26 (replaces version 25)

Revision: 12.08.2023

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

#### 1.1 Product identifier

Trade name **MC-DUR TopSpeed flex - Komponente B**

#### 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

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.

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

STOT SE 3 H335 May cause respiratory irritation.

Aquatic Chronic 2 H411 Toxic 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.

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· **Hazard pictograms**



GHS07 GHS09

· **Signal word**

Warning

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

aliphatic polyisocyanate 1  
aliphatic polyisocyanate 2  
Aliphatisches Polyisocyanat  
Hexamethylendiisocyanat, Oligomerisationsprodukt (Uretidion Typ)  
Aliphatisches Polyisocyanat 3  
hexamethylene diisocyanate

· **Hazard statements**

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

· **Precautionary statements**

H411 Toxic to aquatic life with long lasting effects.  
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.

· **Additional information:**

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.

· **Dangerous components:**

CAS: 164250-92-4	aliphatic polyisocyanate 1 Aquatic Chronic 2, H411; Acute Tox. 4, H332; Skin Sens. 1B, H317; STOT SE 3, H335	30-60%
CAS: 29891-05-2	aliphatic polyisocyanate 2 Aquatic Chronic 2, H411; Acute Tox. 4, H332; Skin Sens. 1B, H317; STOT SE 3, H335	≥10-<20%

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CAS: 28182-81-2	Aliphatisches Polyisocyanat Acute Tox. 4, H332; Skin Sens. 1, H317; STOT SE 3, H335, EUH204	≥10-<20%
EC number: 931-297-3 Reg.nr.: :01-2119488934-20-0000	Hexamethylendiisocyanat, Oligomerisationsprodukt (Uretdion Typ) Acute Tox. 4, H332; Skin Sens. 1, H317; STOT SE 3, H335	≥10-<20%
CAS: 108-32-7 EINECS: 203-572-1	propylene carbonate Eye Irrit. 2, H319	<2.5%
CAS: 1809331-98-3	Aliphatisches Polyisocyanat 3 Aquatic Chronic 2, H411; Acute Tox. 4, H332; Skin Sens. 1B, H317; STOT SE 3, H335	≥1-<1.5%
CAS: 822-06-0 EINECS: 212-485-8 Reg.nr.: 01-2119457571-37-0000	hexamethylene diisocyanate Acute Tox. 2, H330; 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 Specific concentration limits: Resp. Sens. 1; H334: C ≥ 0.5 % Skin Sens. 1; H317: C ≥ 0.5 %	≥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**

Take affected persons into the open air.  
Seek medical treatment.  
Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

· **After inhalation**

Supply fresh air.  
Call a doctor immediately.  
Supply fresh air and call for doctor for safety reasons.  
In case of unconsciousness bring patient into stable side position for transport.

· **After skin contact**

Instantly wash with water and soap and rinse thoroughly.

· **After eye contact**

Seek medical treatment.  
Rinse opened eye for several minutes under running water. Then consult a doctor.

· **After swallowing**

Call a doctor immediately.

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

No further relevant information available.

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- **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** *CO<sub>2</sub>, sand, 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.*  
*Put on 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.*  
*Wear protective equipment. Keep unprotected persons away.*
- **6.2 Environmental precautions:** *Inform respective authorities in case product reaches water or sewage system.*  
*Dilute with much water.*
- **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.*  
*Do not flush with water or aqueous cleansing agents*
- **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.*

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#### 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:** Keep ignition sources away - Do not smoke.  
Protect against electrostatic charges.
- **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.

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

##### 8.1 Control parameters

##### Components with critical values that require monitoring at the workplace:

###### 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

###### 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 (Uretidion Typ)

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

###### 822-06-0 hexamethylene diisocyanate

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

###### 28182-81-2 Aliphatisches Polyisocyanat

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

###### Hexamethylendiisocyanat, Oligomerisationsprodukt (Uretidion Typ)

PNEC	12.7 µg/l (Daphnia magna) (marine)
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PNEC	38.28 mg/l (kei) (STP)
<b>822-06-0 hexamethylene diisocyanate</b>	
PNEC	100 mg/l (Sewage Treatment Plant)
	0.0199 mg/l (Mew)
	0.199 mg/l (Suw)
PNEC	8884 mg/kg dwt (Bod)
	4455 mg/kg dwt (Marine water sediment)
	44551 mg/kg dwt (Fresh water sediment)
<b>· Ingredients with biological limit values:</b>	
<b>822-06-0 hexamethylene diisocyanate</b>	
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 eat, drink or smoke while working.  
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.

· **Breathing equipment:**

An nicht ausreichend entlüfteten Arbeitsplätzen und bei Spritzverarbeitung Atemschutz erforderlich. Empfohlen werden Frischluftmaske oder für kurzzeitige Arbeiten Kombinationsfilter A2-P2.

· **Hand protection**

Bei Überempfindlichkeit der Atemwege und der Haut (Asthma, chronische Bronchitis, chronische Hautleiden) wird der Umgang mit dem Produkt abgeraten.

Protective gloves.

Conditionally suitable materials for protective gloves; EN 374-3:

Nitrile rubber - NBR: Thickness  $\geq 0.35$ mm.

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.

· **Eye/face protection**

Safety glasses

Tightly sealed safety glasses.

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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>Physical state</b>	Fluid
· <b>Colour:</b>	Dark brown
· <b>Smell:</b>	Characteristic
· <b>Odour threshold:</b>	Not determined.
· <b>Melting point/freezing point:</b>	Not determined
· <b>Boiling point or initial boiling point and boiling range</b>	190 °C (623-84-7 propane-1,2-diyl diacetate)
· <b>Flammability</b>	Not applicable.
· <b>Lower and upper explosion limit</b>	
· <b>Lower:</b>	2.8 Vol % (623-84-7 propane-1,2-diyl diacetate)
· <b>Upper:</b>	12.7 Vol % (623-84-7 propane-1,2-diyl diacetate)
· <b>Flash point:</b>	86-95 °C
· <b>Auto-ignition temperature:</b>	431 °C (623-84-7 propane-1,2-diyl diacetate)
· <b>Decomposition temperature:</b>	Not determined.
· <b>pH</b>	Not applicable. Not determined.
· <b>Viscosity:</b>	
· <b>Kinematic viscosity</b>	Not determined.
· <b>dynamic:</b>	Not determined.
· <b>Solubility</b>	
· <b>Water:</b>	Hydrolized
· <b>Partition coefficient n-octanol/water (log value)</b>	Not determined.
· <b>Steam pressure at 20 °C:</b>	<3 hPa (623-84-7 propane-1,2-diyl diacetate)
· <b>Density and/or relative density</b>	
· <b>Density at 20 °C</b>	1.12 g/cm <sup>3</sup>
· <b>Relative density</b>	Not determined.
· <b>Vapour density</b>	Not determined.

· **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-inflammability:</b>	Product is not selfigniting.
· <b>Explosive properties:</b>	Product is not explosive.
· <b>Change in condition</b>	
· <b>Evaporation rate</b>	Not determined.

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

· <b>Explosives</b>	Void
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· <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
· <b>Substances and mixtures, which emit flammable gases in contact with water</b>	Void
· <b>Oxidising liquids</b>	Void
· <b>Oxidising solids</b>	Void
· <b>Organic peroxides</b>	Void
· <b>Corrosive to metals</b>	Void
· <b>Desensitised explosives</b>	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:**

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

Oral	LD50	>5000 mg/kg (rat)
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**29891-05-2 aliphatic polyisocyanate 2**

Oral	LD50	>5000 mg/kg (rat)
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**28182-81-2 Aliphatisches Polyisocyanat**

Oral	LD50	>2500 mg/kg (rat) (OECD 423)
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Dermal	LD50	>2000 mg/kg (rat) (OECD 402)
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Inhalative	LC50/4 h	1.5 mg/l (rat)
<b>Hexamethylendiisocyanat, Oligomerisationsprodukt (Uretdion Typ)</b>		
Oral	LD50	>2500 mg/kg (rat) (OECD 423)
Dermal	LD50	>2000 mg/kg (rat) (OECD 402)
Inhalative	LC50/4 h	1.5 mg/l (rat)
<b>108-32-7 propylene carbonate</b>		
Oral	LD50	>5000 mg/kg (rat)
Dermal	LD50	>2000 mg/kg (rabbit)
<b>822-06-0 hexamethylene diisocyanate</b>		
Oral	LD50	738 mg/kg (rat)
Inhalative	LC50/4 h	0.39 mg/l (rat)

- **Respiratory or skin sensitisation** May cause an allergic skin reaction.
- **STOT-single exposure** May cause respiratory irritation.
- **11.2 Information on other hazards**

· **Endocrine disrupting properties**

None of the ingredients is listed.

**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)

· **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**

· **Remark:** Toxic for fish

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· **Additional ecological information:**

· **General notes:**

Toxic for aquatic organisms

Also poisonous for fish and plankton in water bodies.

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

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.

· **Recommended cleaning agent:**

Water, if necessary with cleaning agent.

#### 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. (aliphatic polyisocyanate 1, aliphatic polyisocyanate 2)

· **IMDG**

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (aliphatic polyisocyanate 1, aliphatic polyisocyanate 2), 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**

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**· 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**

Warning: Miscellaneous dangerous substances and articles.

- **Kemler Number:** 90
- **EMS Number:** F-A,S-F
- **Stowage Category** A

**· 14.7 Maritime transport in bulk according to IMO instruments**

Not applicable.

**· Transport/Additional information:**

**· ADR**

- **Limited quantities (LQ)** 5L
- **Excepted quantities (EQ)** Code: E1  
Maximum net quantity per inner packaging: 30 ml  
Maximum net quantity per outer packaging: 1000 ml
- **Transport category** 3
- **Tunnel restriction code** (-)

**· IMDG**

- **Limited quantities (LQ)** 5L
- **Excepted quantities (EQ)** Code: E1  
Maximum net quantity per inner packaging: 30 ml  
Maximum net quantity per outer packaging: 1000 ml

**· UN "Model Regulation":**

UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (ALIPHATIC POLYISOCYANATE 1, ALIPHATIC POLYISOCYANATE 2), 9, III

### SECTION 15: Regulatory information

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

- **Directive 2012/18/EU**
- **Named dangerous substances - ANNEX I**
- **Seveso category**

None of the ingredients is listed.  
E2 Hazardous to the Aquatic Environment

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- **Qualifying quantity (tonnes) for the application of lower-tier requirements** 200 t
- **Qualifying quantity (tonnes) for the application of upper-tier requirements** 500 t
- **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

#### SECTION 16: Other information

- **Relevant phrases**
  - H302 Harmful if swallowed.
  - H315 Causes skin irritation.
  - H317 May cause an allergic skin reaction.
  - H319 Causes serious eye irritation.
  - H330 Fatal if inhaled.
  - H332 Harmful if inhaled.
  - H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
  - H335 May cause respiratory irritation.
  - H411 Toxic to aquatic life with long lasting effects.
  - EUH204 Contains isocyanates. May produce an allergic reaction.
- **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
  - Acute Tox. 2: Acute toxicity – Category 2
  - 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
  - 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

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BE SURE. BUILD SURE.

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

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**Trade name MC-DUR TopSpeed flex - Komponente B**

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

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