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## Safety data sheet according to UK REACH

Printing date 17.09.2024 Version number 35 (replaces version 34) Revision: 17.09.2024

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

· 1.1 Product identifier

· Trade name MC-DUR TopSpeed flex plus - Komponente B

· 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

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.: +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.

· Hazard pictograms



· Signal word Warning

Hazard-determining

components of labelling: polymer isocyanate terminated

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Aliphatisches Polyisocyanat

apliphatic polycyanat

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.

· 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.

· Dangerous components:		
EC number: 953-812-0	polymer isocyanate terminated	30-60%
	Acute Tox. 4, H332; Skin Sens. 1, H317; STOT SE 3, H335	
CAS: 28182-81-2	Aliphatisches Polyisocyanat	≥20-≤30%
	Acute Tox. 4, H332; Skin Sens. 1, H317; STOT SE 3, H335, EUH204	
CAS: 72968-35-5	apliphatic polycyanat Acute Tox. 4, H332; Skin Sens. 1, H317; STOT SE 3, H335	≥20-≤30%
CAS: 108-65-6	2-methoxy-1-methylethyl acetate	<10%
EINECS: 203-603-9	Flam. Liq. 3, H226; STOT SE 3, H336	

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CAS: 108-32-7	Propylene carbonate	<1.5%
EINECS: 203-572-1	Eye Irrit. 2, H319	
CAS: 822-06-0	hexamethylene diisocyanate	≥0.1-<0.5%
EINECS: 212-485-8 Reg.nr.: 01-2119457571-37- 0000	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 Specific concentration limits:  Resp. Sens. 1; H334: C≥ 0.5 % Skin Sens. 1; H317: C ≥ 0.5 %	
· Additional information	For the wording of the listed hazard phrases refer to s	ection 16.

### 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 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 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.

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· 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°C and <30°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:** Keep container tightly closed in a well-ventilated place.

· Storage class

• 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: 108-65-6 2-methoxy-1-methylethyl acetate

WEL Short-term value: 548 mg/m³, 100 ppm

Long-term value: 274 mg/m³, 50 ppm

Sk

CAS: 822-06-0 hexamethylene diisocyanate

WEL | Short-term value: 0.07 mg/m³

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/m³ (Workers) (long term local)

1 mg/m³ (kei) (acute local eff)

CAS: 108-65-6 2-methoxy-1-methylethyl acetate

Dermal DNEL 153.5 mg/kg bw/day (ArL)

Inhalative DNEL 275 mg/m³ (ArL)

CAS: 822-06-0 hexamethylene diisocyanate

Inhalative DNEL 0.5 mg/m³ (ArL)

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DMEO	(Conta. or pag		
PNECs			
	82-81-2 Aliphatisches Polyisocyanat		
PNEC aqu	ua   12.7 μg/l (Daphnia magna) (marine)		
PNEC	38.28 mg/l (kei) (STP)		
CAS: 108	R-65-6 2-methoxy-1-methylethyl acetate		
PNEC	0.635 mg/l (Fresh water)		
	100 mg/l (Kla)		
	0.0635 mg/l (Mew)		
PNEC	0.29 mg/kg dwt (Bod)		
	0.329 mg/kg dwt (Marine water sediment)		
	3.29 mg/kg dwt (Fresh water sediment)		
CAS: 822	2-06-0 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.

· 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.

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

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

· Hand protection Suitable materials for protective gloves; EN 374:

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

Multi-layer glove - PE/EVAL/PE; Breakthrough time ≥480 min.

Recommendation: Dispose of contaminated gloves.

Bedingt geeignete Materialien für Schutzhandschuhe; EN 374-3:

Nitrilkautschuk - NBR: Dicke ≥0,35mm

Nur als Spritzschutz geeignet. Nur bei kurzzeitiger Einwirkung geeignet. Bei Kontamination sind die Schutzhandschuhe sofort zu

wechseln.

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

≥480min.

Multi-layer glove - PE/EVAL/PE; Breakthrough time ≥480 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: Like aromatic solvents

· Melting point/freezing point: Not determined

· Boiling point or initial boiling point and

boiling range 245 °C (CAS: 166412-78-8 1,2-

Cyclohexandicarbonsäurediisononylester)

• **Flash point:** >75 °C (DIN 51755)

• Auto-ignition temperature: 330 °C (CAS: 166412-78-8 1,2-

Cyclohexandicarbonsäurediisononylester)

• **pH** Not applicable. Not determined.

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· Viscosity:

· Kinematic viscosity
· dynamic:

Not determined.

Not determined.

·Solubility

· Water: Hydrolized

• Steam pressure at 20 °C: 0 hPa (CAS: 166412-78-8 1,2

Cyclohexandicarbonsäurediisononylester)

· Density and/or relative density

· Density at 20 °C 1.03 g/cm³

· 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

Void · Explosives · 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 Void flammable gases in contact with water

Oxidising liquids
Oxidising solids
Organic peroxides
Corrosive to metals
Desensitised explosives

### 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.

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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)		
	Inhalative	LC50/4 h	1.5 mg/l (rat)		
	CAS: 72968-35-5 apliphatic polycyanat				
	Oral	LD50	>2000 mg/kg (rat)		
	CAS: 108-65-6 2-methoxy-1-methylethyl acetate				
	Oral	LD50	8500 mg/kg (rat)		
	Dermal	LD50	>2000 mg/kg (rat)		
	CAS: 108-32-7 Propylene carbonate				
	Oral	LD50	>5000 mg/kg (rat)		
	Dermal	LD50	>2000 mg/kg (rabbit)		
CAS: 822-06-0 hexamethylene diisocyanate					
	Oral	LD50	738 mg/kg (rat)		
	ور بنام المام المام	LOEO/A b	0.20		

Inhalative | LC50/4 h | 0.39 mg/l (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
 Carcinogenicity
 Reproductive toxicity
 Based on available data, the classification criteria are not met.
 Based on available data, the classification criteria are not met.
 Based on available data, the classification criteria are not met.

· **STOT-single exposure** May cause respiratory irritation.

• STOT-repeated exposure
• Aspiration hazard

Based on available data, the classification criteria are not met.

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.

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### **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)

CAS: 108-65-6 2-methoxy-1-methylethyl acetate

LC50/96h | 134 mg/l (Oncorhynchus mykiss)

161 mg/l (Pimephales promelas)

EC50 >1000 mg/l (BEL)

EC50/48h >500 mg/l (Daphnia magna)

NOEC 47.5 mg/l (Ory)

EC50/3d >1000 mg/l (Selenastrum capricornutum)

12.2 Persistence and

No further relevant information available. degradability

12.3 Bioaccumulative

potential No further relevant information available. No further relevant information available. · 12.4 Mobility in soil

12.5 Results of PBT and vPvB assessment · PBT: Not applicable. · vPvB: Not applicable.

· 12.6 Endocrine disrupting

The product does not contain substances with endocrine disrupting properties

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.

· Uncleaned packagings:

Recommendation: Empty contaminated packagings thoroughly. They can be recycled

after thorough and proper cleaning.

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14.1 UN number or ID number	
ADR, IMDG, IATA	Void
· 14.2 UN proper shipping name	
ADR, 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	ng to
IMO instruments	Not applicable.

### **SECTION 15: Regulatory information**

· 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.



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Relevant phrases	H226 H302	Flammable liquid and vapour. 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.
	H336	May cause drowsiness or dizziness.
	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
Flam. Liq. 3: Flammable liquids — Category 3
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

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.