

Article Print d Versio	ate:	993 27.12.202 7.0	22 Re <sup>-</sup>	rter zu Bricafil DI vision date: 10.12 ue date: 10.12.20	2.2022		EN Page 1 / 16	
SEC	TION 1: Ide	entificatio	on of the sul	ostance/mixtu	re and of the c	ompany	/undertaking	
1.1.	Article No. (manufacturer/supplier) 993 Trade name/designation Härter zu Bricafil DD-993 MV 8:1							
1.2.	.2. Relevant identified uses of the substance or mixture and uses advised against							
1.3.	Details of	the supplie	er of the safe	ty data sheet				
	supplier (manufacturer/importer/downstream user/distributor) Vismara Unternehmungen CH-5000 Aarau www.farbladen.ch							
	Department responsible for information: laboratory Manager E-mail (competent person) info@knuchel.ch							
1.4.	Emergenc	• •						
	Emergency				145 (+41 (0)44 2	251 51 51	)	
SEC	TION 2: Ha	azards ide	entification					
2.1.	Classificat	tion of the	substance of	r mixture				
	Classificat	tion accore	ding to Regul	ation (EC) No 1	272/2008 [CLP]			
	The mixture	e is classifi	ed as hazardo	ous according to	regulation (EC) N	lo 1272/2	008 [CLP].	
	Skin Sens. 1 / H317RespiratorySTOT SE 3 / H335STOT-sing			espiratory or skin sensitisation IOT-single exposure		N N	lammable liquid and vapour. lay cause an allergic skin reaction. lay cause respiratory irritation. lay cause drowsiness or dizziness.	
2.2.	Label elen	nents						
			to Regulation	n (EC) No. 1272/	2008 [CLP]			
	Hazard pic	ctograms						
		(!)	Warn	ing				
	Hazard sta H226 H317 H335 H336	atements	May cause a May cause re	quid and vapour. n allergic skin rea espiratory irritatio rowsiness or dizz	action. n.			
	Precautionary statementsP101If medical advice is needed, have product container or label at hand.P102Keep out of reach of children.P103Read carefully and follow all instructions.P210Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.P240Ground and bond container and receiving equipment.P241Use explosion-proof electrical equipment.P242Use non-sparking tools.P243Take action to prevent static discharges.P261Avoid breathing vapours.P272Contaminated work clothing should not be allowed out of the workplace.P280Wear protective gloves and eye/face protection.P302 + P352IF ON SKIN: Wash with plenty of soap and water.P303 + P361 + P353IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shoP304 + P340IF INHALED: Remove person to fresh air and keep comfortable for breathing.P312Call a POISON CENTER or doctor/physician if you feel unwell.P333 + P313If skin irritation or rash occurs: Get medical advice/attention.P362 + P364Take off contaminated clothing and wash it before reuse.				s and other ignition sources. No smoking. of the workplace. ated clothing. Rinse skin with water [or shower]. fortable for breathing. unwell. tion.			

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	P403 + P233         Store in a           P403 + P235         Store in a           P405         Keep lock		of fire: Use extinguishing powder or sand to extinguish. a well-ventilated place. Keep container tightly closed. a well-ventilated place. Keep cool. ked up. of contents/container to industrial incineration plant.		
	n-butyl a hexame		nopolymers		
	Supplemental hazard information		ation		
			exposure may cause skin dryness or cracking. socyanates. May produce an allergic reaction.		
2.3.	Other haza	ırds			
	No informa	tion available.			

## **SECTION 3: Composition/information on ingredients**

#### 3.2. Mixtures

Description

polyisocyanate hardener, containing the following hazardous substances:

### Classification according to Regulation (EC) No 1272/2008 [CLP]

EC No. CAS No. Index No.	REACH No. Designation classification // Remark	weight-%
500-060-2 28182-81-2	01-2119488934-20 HDI-homopolymers Acute Tox. 4 H332 / Skin Sens. 1 H317 / STOT SE 3 H335	40 - 60
204-658-1 123-86-4 607-025-00-1	01-2119485493-29 n-butyl acetate Flam. Liq. 3 H226 / STOT SE 3 H336 / EUH066	25 - 40
203-603-9 108-65-6 607-195-00-7	01-2119475791-29 2-methoxy-1-methylethyl acetate Flam. Liq. 3 H226 Substance with a common (EC) occupational exposure limit value.	5 - 10
500-125-5 53880-05-0	01-2119488734-24 Isophorone diisocyanate oligomer Skin Sens. 1 H317 / STOT SE 3 H335	5 - 10
215-535-7 1330-20-7 601-022-00-9	01-2119488216-32 Xylene Acute Tox. 4 H312 / Acute Tox. 4 H332 / Skin Irrit. 2 H315 / Eye Irrit. 2 H319 / STOT SE 3 H335 / STOT RE 2 H373 / Asp. Tox. 1 H304 / Flam. Liq. 3 H226	5 - 10
202-849-4 100-41-4 601-023-00-4	01-2119489370-35 ethylbenzene Flam. Liq. 2 H225 / Acute Tox. 4 H332 / STOT RE 2 H373 / Asp. Tox. 1 H304	1 - 5
212-485-8 822-06-0 615-011-00-1	01-2119457571-37 hexamethylene-di-isocyanate Acute Tox. 3 H331 / Eye Irrit. 2 H319 / STOT SE 3 H335 / Skin Irrit. 2 H315 / Resp. Sens. 1 H334 / Skin Sens. 1 H317 Specific concentration limit (SCL): Resp. Sens. 1 H334 >= 0.5 / Skin Sens. 1 H317 >= 0.5 Acute toxicity estimate (ATE), ATE (inhalation, vapour): 0.12 mg/L	0.1 - 0.5

Full text of classification: see section 16

### **SECTION 4: First aid measures**

4.1. Description of first aid measures

**General information** 

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In all cases of doubt, or when symptoms persist, seek medical advice. In case of unconsciousness give nothing by mouth, place in recovery position and seek medical advice.

#### In case of inhalation

Remove casualty to fresh air and keep warm and at rest. In case of irregular breathing or respiratory arrest provide artificial respiration.

#### Following skin contact

Take off immediately all contaminated clothing. After contact with skin, wash immediately with plenty of water and soap. Do not use solvents or thinners.

#### After eye contact

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Seek medical advice immediately.

#### **Following ingestion**

If swallowed, rinse mouth with water (only if the person is conscious). Seek medical advice immediately. Keep victim calm. Do NOT induce vomiting.

- 4.2. Most important symptoms and effects, both acute and delayed In all cases of doubt, or when symptoms persist, seek medical advice.
- 4.3. **Indication of any immediate medical attention and special treatment needed** First Aid, decontamination, treatment of symptoms.

### **SECTION 5: Firefighting measures**

5.1. Extinguishing media

### Suitable extinguishing media

alcohol resistant foam, carbon dioxide, Powder, spray mist, (water)

# Unsuitable extinguishing media

strong water jet

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

Dense black smoke occurs during fire. Inhaling hazardous decomposing products can cause serious health damage.

### 5.3. Advice for firefighters

Provide a conveniently located respiratory protective device. Cool closed containers that are near the source of the fire. Do not allow water used to extinguish fire to enter drains, ground or waterways.

#### **SECTION 6: Accidental release measures**

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

Keep away from sources of ignition. Ventilate affected area. Do not breathe vapours.

#### 6.2. Environmental precautions

Do not allow to enter into surface water or drains. If the product contaminates lakes, rivers or sewages, inform competent authorities in accordance with local regulations.

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

Isolate leaked material using non-flammable absorption agent (e.g. sand, earth, vermiculit, diatomaceous earth) and collect it for disposal in appropriate containers in accordance with the local regulations (see section 13). Clean using cleansing agents. Do not use solvents.

### 6.4. Reference to other sections

Observe protective provisions (see section 7 and 8).

### **SECTION 7: Handling and storage**

#### 7.1. Precautions for safe handling

#### Advices on safe handling

Avoid formation of flammable and explosive vapour concentrations in the air and exceeding the exposure limit values. Only use the material in places where open light, fire and other flammable sources can be kept away. Electrical equipment must be protected meeting the accepted standard. Product may become electrostatically charged. Provide earthing of containers, equipment, pumps and ventilation facilities. Anti-static clothing including shoes are recommended. Floors must be electrically conductive. Keep away from heat sources, sparks and open flames. Use only spark proof tools. Avoid contact with skin, eyes and clothes. Do not inhale dusts, particulates and spray mist when using this preparation. Avoid respiration of swarf. When using do not eat, drink or smoke. Personal protection equipment: refer to section 8. Do not empty containers with pressure - no pressure vessel! Always keep in containers that correspond to the material of the original container. Follow the legal

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#### protection and safety regulations.

#### **Further information**

Vapours are heavier than air. Vapours form explosive mixtures with air.

#### 7.2. Conditions for safe storage, including any incompatibilities

#### Requirements for storage rooms and vessels

Storage in accordance with the Ordinance on Industrial Safety and Health (BetrSiVO). Keep container tightly closed. Do not empty containers with pressure - no pressure vessel! Smoking is forbidden. Access only for authorised persons. Store carefully closed containers upright to prevent any leaks. Soils have to conform to the "Guidelines for avoidance of ignition hazards due to electrostatic charges (TRGS 727)".

#### Hints on joint storage

Keep away from strongly acidic and alkaline materials as well as oxidizers.

#### Further information on storage conditions

Take care of instructions on label. Store in a well-ventilated and dry room at temperatures between 15 °C and 30 °C. Protect from heat and direct sunlight. Keep container tightly closed. Remove all sources of ignition. Smoking is forbidden. Access only for authorised persons. Store carefully closed containers upright to prevent any leaks.

#### 7.3. Specific end use(s)

Observe technical data sheet. Observe instructions for use.

### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

#### Occupational exposure limit values:

2-methoxy-1-methylethyl acetate Index No. 607-195-00-7 / EC No. 203-603-9 / CAS No. 108-65-6

WEL, TWA: 274 mg/m3; 50 ppm WEL, STEL: 548 mg/m3; 100 ppm Remark: (may be absorbed through the skin)

#### Isophorone diisocyanate oligomer

EC No. 500-125-5 / CAS No. 53880-05-0

WEL, TWA: 0.02 mg/m3 WEL, STEL: 0.07 mg/m3

BMGV, TWA: 1 µmol/mol creatinine

Remark: isocyanate-derived diamine; urine; end of exposure or end of shift

#### Xylene

Index No. 601-022-00-9 / EC No. 215-535-7 / CAS No. 1330-20-7

WEL, TWA: 220 mg/m3; 50 ppm

WEL, STEL: 441 mg/m3; 100 ppm

Remark: (may be absorbed through the skin)

BMGV, TWA: 650 mmol/mol creatinine

Remark: methyl hippuric acid; urine; end of exposure or end of shift

ethylbenzene

Index No. 601-023-00-4 / EC No. 202-849-4 / CAS No. 100-41-4

WEL, TWA: 441 mg/m3; 100 ppm WEL, STEL: 552 mg/m3; 125 ppm Remark: (may be absorbed through the skin)

#### Additional information

TWA : Long-term occupational exposure limit value STEL : short-term occupational exposure limit value Ceiling : peak limitation

#### DNEL:

#### Xylene

Index No. 601-022-00-9 / EC No. 215-535-7 / CAS No. 1330-20-7 DNEL long-term dermal (systemic), Workers: 212 mg/kg bw/day DNEL acute inhalative (local), Workers: 442 mg/m<sup>3</sup> DNEL acute inhalative (systemic), Workers: 442 mg/m<sup>3</sup> DNEL long-term inhalative (local), Workers:

according to Regulation (EU) 2020/878						
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DNEL DNEL DNEL DNEL DNEL	long-term oral (repeations) long-term dermal (sy acute inhalative (loc acute inhalative (system) long-term inhalative	(systemic), Workers: 221 mg/m <sup>3</sup> ated), Consumer: 12,5 mg/kg bw/day /stemic), Consumer: 125 mg/kg bw/day al), Consumer: 260 mg/m <sup>3</sup> .temic), Consumer: 260 mg/m <sup>3</sup> (local), Consumer: 65,3 mg/m <sup>3</sup> (systemic), Consumer: 65,3 mg/m <sup>3</sup>				
DNEL DNEL DNEL	o. 601-023-00-4 / EC long-term dermal (sy long-term inhalative long-term oral (repea	C No. 202-849-4 / CAS No. 100-41-4 /stemic), Workers: 180 mg/kg bw/day (systemic), Workers: 77 mg/m³ ated), Consumer: 1,6 mg/kg bw/day (systemic), Consumer: 15 mg/m³				
Index No DNEL	acute inhalative (loc	e 2 No. 212-485-8 / CAS No. 822-06-0 al), Workers: 0,07 mg/m³ (systemic), Workers: 0,035 mg/m³				
DNEL DNEL	o. 607-025-00-1 / EC short-term oral (acut long-term inhalative	C No. 204-658-1 / CAS No. 123-86-4 e), Workers: (systemic), Workers: 480 mg/m³ (systemic), Consumer: 102,34 mg/m³				
Index No DNEL DNEL	long-term oral (repeations) long-term dermal (sy	etate C No. 203-603-9 / CAS No. 108-65-6 ated), Workers: 1,67 mg/kg /stemic), Workers: 54,8 mg/kg (systemic), Workers: 33 mg/m³				
EC No. DNEL		. 28182-81-2 al), Workers: 1 mg/m³ (local), Workers: 0,5 mg/m³				
EC No. DNEL	one diisocyanate olig 500-125-5 / CAS No long-term inhalative					
PNEC:						
PNEC PNEC PNEC PNEC PNEC soil: 2,	aquatic, freshwater: aquatic, marine wate sediment, freshwate sediment, marine wa sewage treatment p 31 mg/kg	er: 0,327 mg/L r: 12,46 mg/kg				
PNEC PNEC PNEC PNEC PNEC		er: 0,01 mg/L ır: 13,7 mg/kg ater: 1,37 mg/kg				
PNEC PNEC PNEC PNEC PNEC	o. 607-025-00-1 / EC aquatic, freshwater: aquatic, marine wate aquatic, intermittent sediment, freshwate sediment, marine wa	er: 0,018 mg/L	t			

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PNEC	sewage treatment pl	ant (STP): 35,6 mg/L			
2-methoxy-1-methylethyl acetate Index No. 607-195-00-7 / EC No. 203-603-9 / CAS No. 108-65-6 PNEC aquatic, freshwater: 0,635 mg/cm <sup>3</sup> PNEC aquatic, marine water: 0,0635 mg/cm <sup>3</sup> PNEC aquatic, intermittent release: 6,35 mg/cm <sup>3</sup> PNEC sediment, freshwater: 3,29 mg/cm <sup>3</sup> PNEC sediment, marine water: 0,329 mg/cm <sup>3</sup> PNEC, soil: 0,29 mg/m <sup>3</sup> PNEC sewage treatment plant (STP): 100 mg/cm <sup>3</sup>					
HDI-homopolymers EC No. 500-060-2 / CAS No. 28182-81-2 PNEC aquatic, freshwater: 0,127 mg/L PNEC aquatic, marine water: 0,0127 mg/L PNEC sediment, freshwater: 266700 mg/kg Sediment dry weight PNEC sediment, marine water: 266700 mg/kg Sediment dry weight PNEC, soil: 53182 mg/kg PNEC sewage treatment plant (STP): 38,28 mg/L					
EC No. PNEC	one diisocyanate olig 500-125-5 / CAS No. aquatic, freshwater: aquatic, marine wate	53880-05-0 0,0015 mg/L			

PNEC sewage treatment plant (STP): 100 mg/L

### 8.2. Exposure controls

Provide good ventilation. This can be achieved with local or room suction. If this should not be sufficient to keep aerosol and solvent vapour concentration below the exposure limit values, a suitable respiratory protection must be used.

#### Personal protection equipment

#### **Respiratory protection**

If concentration of solvents is beyond the occupational exposure limit values, approved and suitable respiratory protection must be used. Use only respiratory protection equipment with CE-symbol including four digit test number.

#### Hand protection

For prolonged or repeated handling the following glove material must be used: NBR (Nitrile rubber)

Thickness of the glove material > 0,4 mm ; Breakthrough time: > 480 min.

Observe the instructions and details for use, storage, maintenance and replacement provided by the protective glove manufacturer. Penetration time of glove material depending on intensity and duration of exposure to skin. Recommended glove articles EN ISO 374

Barrier creams can help protecting exposed skin areas. In no case should they be used after contact.

### Eye/face protection

Wear closely fitting protective glasses in case of splashes.

#### Body protection

Wear antistatic clothing of natural fibers (cotton) or heat resistant synthetic fibers.

#### Protective measures

After contact clean skin thoroughly with water and soap or use appropriate cleanser.

# Environmental exposure controls

Do not allow to enter into surface water or drains. See section 7. No additional measures necessary.

### **SECTION 9: Physical and chemical properties**

9.1.	Information on basic physical and chemical properties					
	Physical state:	Liquid				
	Colour:	refer to label				
	Odour:	characteristic				
	Odour threshold:	not applicable				
	Melting point/freezing point:	not applicable				
	Initial boiling point and boiling range:	126 °C				
		Source: n-butyl acetate				
	Flammability:	Flammable liquid and vapour.				

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L	ower and	l upper explosion lir	nit:		
		plosion limit:		1.48 Vol-%	
	Upper ex	plosion limit:		8 Vol-%	
-	loop noin	4.		Source: Xylene 25 °C	
Г	lash poin	IL.		Method: DIN 5321	3
Δ	Auto-ianiti	ion temperature:		333 °C	-
	uto igint				r-1-methylethyl acetate
D	Decompos	sition temperature:		not applicable	
р	oH at 20 °C	C:		not applicable	
-		viscosity (40°C):		< 80 mm²/s	
v	/iscosity a	at 20 °C:		20 s 4 mm	
				Method: DIN 5321	1
	Solubility(				
		ubility at 20 °C:		insoluble	
		oefficient: n-octano	l/water:	see section 12	
v	/apour pro	essure at 20 °C:		<b>13 mbar</b> Source: n-butyl ace	etate
	Density an Density at	d/or relative density 20 °C:	<i>/</i> :	1.01 g/cm³	
R	Relative va	apour density:		not applicable	
р	oarticle ch	aracteristics:		not applicable	
9.2. <b>C</b>	Other info	rmation			
s	Solid cont	ent:		52 weight-%	
S	solvent co	ntent:		-	
	Organic s	solvents:		48 weight-%	
	Water:			0 weight-%	
SECTI	ION 10: S	tability and reacti	vity		
10.1. <b>R</b>	Reactivity				
	-	tion available.			
S	<ul> <li>Chemical stability         Stable when applying the recommended regulations for storage and handling. Further information on correct storage: refer to section 7.     </li> </ul>				handling. Further information on correct storage: refer to
	-	<b>of hazardous react</b> from strong acids, st		strong oxidizing age	nts to avoid exothermic reactions.
10.4. <b>C</b>	Condition	-	-		
10.5. <b>Ir</b>		ble materials	,		
		decomposition pro	oducts		
Н	Hazardous			with exposure to hig	gh temperatures, e.g.: carbon dioxide, carbon monoxide,

smoke, nitrogen oxides.

# **SECTION 11: Toxicological information**

### 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

# Acute toxicity

Xylene oral, LD50, Rat, male: 5,523 mg/kg Method: EU Test B.1 inhalative (vapours), LC50, Rat, male: 6700 ppm (4 h) ethylbenzene

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	050, Rat: 3,5 mg/kg LD50, Rabbit: 15,4	mg/kg		
oral, LE Method dermal, Method dermal, inhalati Method	hylene-di-isocyanate 050, Rat: 746 mg/kg : OECD 401 LD50, Rat: > 7000 : OECD 402 LD50, Rabbit: 570 ve (vapours), LC50, : OECD 403 ve (vapours), LC50,	mg/kg ng/kg Rat: 0,124 mg/L (4 h)		
n-butyl a oral, LC Method dermal, Method inhalati	cetate 050, Rat: 10760 mg/ : OECD 423 LD50, Rabbit: 1411 : OECD 402	kg		
	ky-1-methylethyl ace LD50, Rabbit: > 20			
dermal, Method inhalati Method inhalati	: OECD 403	mg/kg Rat: 543 mg/L (4 h) Rat, female: 390 mg/m³ (4 h)		
oral, LD dermal, Method inhalati	ne diisocyanate olig 050, Rat: > 14000 m LD50, Rat: > 7000 : OECD 402 ve (vapours), LC50, : OECD 403	g/kg		
		erious eye damage/eye irritation		
Causes eyes, R	abbit (24 h) mild skin irritation.			
hexamet Skin (4 Method Corrosi eyes Method	hylene-di-isocyanate h) : OECD 404 ve : OECD 405	e n.; Causes serious eye damage.		
n-butyl a Skin, R Method No skin eyes Method	•	n., Causes senous eye damage.		
2-methoy Skin (4 Method Not to b eyes	ky-1-methylethyl ace h) : OECD 404 be classified as skin			

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Skin, R Methoo mild irri eyes, F			
mild irr			
Skin, R Methoo non-irri eyes, F Methoo		omer	
Respira	tory or skin sensitis	sation	
May cau	se an allergic skin re	action.	
Skin, G Methoo Respira	hylene-di-isocyanate auinea pig: ; Evaluati l: OECD 406 atory system, Guinea l: OECD 406		
Method	cetate iuinea pig: ; Evaluati I: OECD 406 mouse ear swelling		
2-metho Skin: ; Methoo Respira	xy-1-methylethyl ace Evaluation not sensi I: OECD 406 atory system: a available	tate	
HDI-hom Skin, G Methoo Magnu Respira Methoo	hopolymers Buinea pig: ; Evaluati I: OECD 406 son/Klingmann test	on sensitising a pig: ; Evaluation sensitising	
Isophoro Skin, M Methoo Respira	one diisocyanate olig louse: ; Evaluation p l: Oecd 429 atory system: a available		
		ty, mutagenicity and toxicity for rep	roduction)
ethylben Germ o Hamste Carcino	zene ell mutagenicity; Eva er; Mouse; ovaries ogenicity; Evaluation	aluation negative	
hexamet Germ o Mutage Carcino Showe Reproo	ogenicity d no carcinogenic ef luctive toxicity	ell test): chromosome aberration. Ova fect in animal experiments.	rian cells of Chinese hamster Result: negative
Genoto	ct on fertility in anim ixicity in vivo; Evalua I: OECD 474		

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Genoto Methoo Salmoi teratog			
n-butyl a		uction Amon toot popping	
2-metho Germ o No dat Carcin No dat Reproo No dat Lactati	xy-1-methylethyl aceta cell mutagenicity a available ogenicity a available ductive toxicity a available	uation Ames test negative. ate	
Germ o The pro Carcin No dat Reproo	nopolymers cell mutagenicity oduct showed no muta ogenicity a available ductive toxicity a available	igenic properties in bacteria and	mammalian cell cultures.
Germ of No dat Carcin No dat Reproo The av Genoto Methoo	oxicity in vitro d: OECD 471 (Ames te	ovide any indications of reproduc	
STOT-s	ingle exposure; STO	<b>F-repeated exposure</b>	
May cau	se respiratory irritation	1.	
May cau	ise drowsiness or dizzi	ness.	
Liver a Causes exposu	ire if it is conclusively p	ntral nervous system	
Methoo RTECS Depres	azene ted dose toxicity, Rat: d OECD 407 S-no.:; DA0700000 ssion of central nervou nent disorders; headac	s system	
Specifi May ca	thylene-di-isocyanate c target organ toxicity ause respiratory irritation c target organ toxicity	on.; Target organs: Respiratory	system

Specific target organ toxicity (repeated exposure) No data available

n-butyl acetate

Specific target organ toxicity (single exposure) central nervous system; May cause drowsiness or dizziness. Specific target organ toxicity (repeated exposure)

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human; Prolonged or repeated skin contact may cause removal of natural fat from the skin resulting in dermatitis (skin inflammation).; Steam in high concentration leads to unconsciousness.

2-methoxy-1-methylethyl acetate

Specific target organ toxicity (single exposure)

No data available

Specific target organ toxicity (repeated exposure)

No data available

HDI-homopolymers

Specific target organ toxicity (single exposure) Evaluation May cause respiratory irritation.

Specific target organ toxicity (repeated exposure) Evaluation After repeated recording, the local irritant effect is in the foreground.

Isophorone diisocyanate oligomer

Specific target organ toxicity (single exposure) Evaluation May cause respiratory irritation.

Specific target organ toxicity (repeated exposure) Evaluation Based on available data, the classification criteria are not met.

#### Aspiration hazard

n-butyl acetate

Aspiration hazard; Evaluation No classification for aspiration toxicity

2-methoxy-1-methylethyl acetate

Aspiration hazard

Not to be classified as aspirational.

HDI-homopolymers

Aspiration hazard; Evaluation No danger of aspiration to be assumed.

Isophorone diisocyanate oligomer

Aspiration hazard; Evaluation Based on available data, the classification criteria are not met.

#### Practical experience/human evidence

Inhaling of solvent components above the MWC-value can lead to health damage, e.g. irritation of the mucous membrane and respiratory organs, as well as damage to the liver, kidneys and the central nerve system. Indications for this are: headache, dizziness, fatigue, amyosthenia, drowsiness, in serious cases: unconsciousness. Solvents may cause some of the aforementioned effects through skin resorption. Repeated or prolonged contact with the preparation may cause removal of natural fat from the skin resulting in non-allergic contact dermatitis and/or absorption through skin. Splashing may cause eye irritation and reversible damage.

### **Overall assessment on CMR properties**

The ingredients in this mixture do not meet the criteria for classification as CMR category 1A or 1B according to CLP.

#### 11.2. Information on other hazards

#### Endocrine disrupting properties

No information available.

#### **SECTION 12: Ecological information**

Classification according to Regulation (EC) No 1272/2008 [CLP] Do not allow to enter into surface water or drains.

### 12.1. Toxicity

Xylene Fish toxicity, LC50, fish: 2,6 mg/L (96 h) Method: OECD 203 Algae toxicity, ErC50, Pseudokirchneriella subcapitata: 4,6 mg/L (72 h) Method: OECD 201 Algae toxicity, EC50, Pseudokirchneriella subcapitata: 4,6 mg/L (72 h) Method: OECD 201 Fish toxicity, LC50, Oncorhynchus mykiss (Rainbow trout) (96 h) Method: OECD 203 Daphnia toxicity, IC50, Daphnia magna: 1 mg/L (24 h) Method: OECD 202 Algae toxicity, EC50, Selenastrum capricornutum: 2,2 mg/L (73 h) Method: OECD 201 Daphnia toxicity, growth test (Eb-Cx) 10%", Daphnia magna: 1,91 mg/L (21 d) Method: OECD 211

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	a toxicity, NOEC, Act 1: OECD 301 F	ivated sludge: 16 mg/L (28	t)	
Daphni Algae t Algae t Shellfis	xicity, LC50, Oncorhy ia toxicity, EC50, Dap oxicity, EC50, Skelet oxicity, EC50, Pseud sh Toxicity, LC50, My	vnchus mykiss (Rainbow trou ohnia magna (Big water flea) onema costatum: 4,9 mg/L okirchneriella subcapitata: 7, sidopsis bahia: > 5,2 mg/L ( EC50, microorganisms: 96 m	1,8 - 2,4 mg/L (48 (72 h) 2 mg/L (48 h) 48 h)	
Fish to Algae t Methoo accom growth Methoo	oxicity, ErC50, Desm I: OECD 201 panying analysis: yes inhibition, NOEC, De I: OECD 201	erio (zebrafish): 22 mg/L (96 iodesmus subspicatus: > 77, s esmodesmus subspicatus: 11	4 mg/L (72 h)	
Bacteri (IUCLII respira	D)	domonas putida: 100 mg/L Activated sludge: 842 mg/L		
Methoo Daphni Algae t Algae t (Growt Algae t	xicity, LC50, Pimepha d: OECD 203 ia toxicity, EC50, Dap oxicity, ErC50 oxicity, EC50, Desmo h inhibition) oxicity, NOEC, Desm	ales promelas (fathead minno ohnia magna (Big water flea): odesmus subspicatus: 647,7 nodesmus subspicatus: 200 r ahymena: 356 mg/L (40 h)	44 mg/L (48 h) mg/L (72 h)	h)
HDI-hon Fish to Methoo Daphni Methoo Algae t Methoo Bacteri	nopolymers xicity, LC50, Danio re d: OECD 203 a toxicity, EC50, Dap d: OECD 202 oxicity, IC50, Scened d: OECD 201	erio (zebrafish): > 100 mg/L ohnia magna: > 100 mg/L (4 lesmus subspicatus: > 100 m vated sludge: 1000 mg/L (3	8 h) ng/L (72 h)	
Isophoro Fish to Directiv Daphni Methoo Algae t Methoo growth Bacteri Methoo	one diisocyanate oligo xicity, LC50, Cyprinus ve 67/548/EEC, Anne a toxicity, EC50, Dap d: OECD 202 oxicity, ErC50, Scene d: OECD 201 inhibition	s carpio (Common Carp): > 1	3,36 mg/L (48 h) mg/L (72 h)	)
-	rm Ecotoxicity			
Methoo Fish to Daphni Methoo Daphni	I: OECD 201 xicity, NOEC, fish: > ia toxicity, NOEC, Da I: US EPA 600/4-91-	phnia pulex (water flea): 1,17	' mg/L (7 d)	

Article No.: 993 Härter zu Bricafil DD-993 27.12.2022 Print date: Revision date: 10.12.2022 FN Page 13 / 16 Version: 70 Issue date: 10.12.2022 Algae toxicity, EC50, Pseudokirchneriella subcapitata: 2,2 mg/L (73 h) Method: OECD 201 Daphnia toxicity, LOEC:, Daphnia magna (Big water flea): 3,16 mg/L (21 d) Method: OECD 211 Algae toxicity, growth test (Eb-Cx) 10%", Pseudokirchneriella subcapitata: 0,72 mg/L (73 h) Method: OECD 201 ethvlbenzene Daphnia toxicity, NOEC, Ceriodaphnia dubia (Wasserfloh): 0,96 mg/L (7 d) Daphnia toxicity, LC50, Ceriodaphnia dubia (Wasserfloh): 3,6 mg/L (7 d) Bacteria toxicity, EC50, Nitrosomonas sp: 96 mg/L (24 h) Algae toxicity, NOEC, Pseudokirchneriella subcapitata: 3,4 mg/L (96 h) Daphnia toxicity, LOEC:, Ceriodaphnia dubia (Wasserfloh): 1,7 mg/L (7 d) 12.2. Persistence and degradability **Xylene** Persistence and degradability: Method: Rapid photochemical oxidation in air Biodegradation: 98 percent (28 d) Readily biodegradable (according to OECD criteria) ethvlbenzene Biodegradation, aerobic: 70 - 80 percent (28 d); Evaluation Readily biodegradable (according to OECD criteria) hexamethylene-di-isocvanate Biodegradation: < 0,0001 percent (28 d); Evaluation Poorly eliminated from water. Method: OECD 302C n-butyl acetate Persistence and degradability: Evaluation No data available Biodegradation: 83 percent (28 d); Evaluation Readily biodegradable (according to OECD criteria). Method: OECD 301D aerobic. 2-methoxy-1-methylethyl acetate Persistence and degradability: No data available Biodegradation: Evaluation Readily biodegradable (according to OECD criteria). HDI-homopolymers Biodegradation: Evaluation Not readily biodegradable (according to OECD criteria) Method: OECD 301C Isophorone diisocyanate oligomer Biodegradation: 28 percent (28 d); Evaluation Not readily biodegradable (according to OECD criteria) Method: OECD 301F aerobic; Activated sludge 12.3. Bioaccumulative potential **Xylene** Distribution coefficient n-octanol/water (log KOW): 3,49 ethylbenzene Distribution coefficient n-octanol/water (log KOW): 3,6 n-butyl acetate Distribution coefficient n-octanol/water (log KOW): No data available 2-methoxy-1-methylethyl acetate Distribution coefficient n-octanol/water (log KOW): 1,2 HDI-homopolymers Distribution coefficient n-octanol/water (log KOW): No data available Isophorone diisocyanate oligomer Distribution coefficient n-octanol/water (log KOW): Evaluation Accumulation in organisms is not to be expected. 12.4. Mobility in soil **Xylene** Evaluation Absorbs slowly into the soil soil:

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	Water:	Evaluation Floats of	on the water					
	n-butyl a	cetate						
	: No dota	available						
		opolymers						
	soil:	opolymens						
	No data	available						
	Water: Method	ne diisocyanate oligo 3,62 - 7,66 h; Evalu : OECD 111 be: Hydrolysis ; Half-l	ation The substance	e hydrolyses rapidl	y in water.			
12.5.	Results	of PBT and vPvB as	sessment					
	The subs	stances in the mixture	e do not meet the PB	BT/vPvB criteria ac	cording to F	REACH, annex	XIII.	
12.6.		ne disrupting prope nation available.	rties					
12.7.		lverse effects nation available.						
SEC	TION 13:	Disposal conside	erations					
13.1.	Waste tr	eatment methods						
	L)o not a	llow to enter into sur						
	disposal legislatio List of p 080111*	according to directiv n. <b>roposed waste cod</b> Waste	e 2008/98/EC, cove es/waste designati paint and varnish co	ions in accordance ontaining organic s	ngerous wa e with EW( solvents or c	nste. Dispose o C other dangerous	f waste acco	rding to applica
	disposal legislatio List of p 080111* *Hazardo Appropr Recomm	according to directiv n. <b>roposed waste cod</b>	e 2008/98/EC, cove es/waste designati paint and varnish co to Directive 2008/98 age	ering waste and da ions in accordanc ontaining organic s B/EC (waste framev	ngerous wa e with EW( colvents or c vork directiv	nste. Dispose o C other dangerous re).	f waste acco s substances	rding to applica
SEC	disposal legislatio List of p 080111* *Hazardo Appropr Recomm Non-conf	according to directiv n. roposed waste cod Waste ous waste according iate disposal / Pack nendation	e 2008/98/EC, cove es/waste designati paint and varnish co to Directive 2008/98 age may be recycled. Ve	ering waste and da ions in accordanc ontaining organic s B/EC (waste framev	ngerous wa e with EW( colvents or c vork directiv	nste. Dispose o C other dangerous re).	f waste acco s substances	rding to applica
	disposal legislatio List of p 080111* *Hazardo Appropr Recomm Non-cont	according to directiv n. roposed waste cod Waste ous waste according iate disposal / Pack nendation caminated packages	e 2008/98/EC, cove es/waste designati paint and varnish co to Directive 2008/98 age may be recycled. Ve	ering waste and da ions in accordanc ontaining organic s B/EC (waste framev	ngerous wa e with EW( colvents or c vork directiv	nste. Dispose o C other dangerous re).	f waste acco s substances	rding to applica
	disposal legislatio List of p 080111* *Hazardo Appropr Recomm Non-cont	according to directiv n. roposed waste cod Waste ous waste according iate disposal / Pack hendation caminated packages Transport inform	e 2008/98/EC, cove es/waste designati paint and varnish co to Directive 2008/98 rage may be recycled. Ve ation	ering waste and da ions in accordanc ontaining organic s B/EC (waste framev	ngerous wa e with EW( colvents or c vork directiv	nste. Dispose o C other dangerous re).	f waste acco s substances	rding to applica
14.1.	disposal legislatio List of p 080111* *Hazardo Appropr Recomm Non-cont TION 14: UN num	according to directiv n. roposed waste cod Waste ous waste according iate disposal / Pack nendation aminated packages Transport inform ber or ID number er shipping name	e 2008/98/EC, cove es/waste designati paint and varnish co to Directive 2008/98 age may be recycled. Ve ation	ering waste and da ions in accordance ontaining organic s B/EC (waste framew essels not properly UN 1263	ngerous wa e with EW( colvents or c vork directiv	nste. Dispose o C other dangerous re).	f waste acco s substances	rding to applica
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14.1. 14.2.	disposal legislatio List of p 080111* *Hazardo Appropr Recomm Non-conf TION 14: UN num UN prop Land trans Sea trans	according to directiv n. roposed waste cod Waste ous waste according iate disposal / Pack nendation caminated packages Transport inform ber or ID number er shipping name nsport (ADR/RID): sport (IMDG):	e 2008/98/EC, cove es/waste designati paint and varnish co to Directive 2008/98 age may be recycled. Ve ation	ering waste and da ions in accordance ontaining organic s B/EC (waste framew essels not properly UN 1263 Paint PAINT	ngerous wa e with EW( colvents or c vork directiv	nste. Dispose o C other dangerous re).	f waste acco s substances	rding to applica
14.1. 14.2. 14.3.	disposal legislatio List of p 080111* *Hazardo Appropr Recomm Non-cont TION 14: UN num UN prop Land transpo Air transpo	according to directiv n. roposed waste cod Waste ous waste according iate disposal / Pack nendation taminated packages Transport inform ber or ID number er shipping name nsport (ADR/RID): sport (IMDG): port (ICAO-TI / IATA- rt hazard class(es)	e 2008/98/EC, cove es/waste designati paint and varnish co to Directive 2008/98 age may be recycled. Ve ation	ering waste and da ions in accordance ontaining organic s B/EC (waste framew essels not properly UN 1263 Paint PAINT	ngerous wa e with EW( colvents or c vork directiv	nste. Dispose o C other dangerous re).	f waste acco s substances	rding to applica
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14.1. 14.2. 14.3. 14.4.	disposal legislatio List of p 080111* *Hazardo Appropr Recomm Non-cont TION 14: UN num UN prop Land transp Transpo Packing Environn	according to directiv n. roposed waste cod Waste ous waste according iate disposal / Pack nendation taminated packages Transport inform ber or ID number er shipping name nsport (ADR/RID): sport (IMDG): sport (IMDG): sport (ICAO-TI / IATA- rt hazard class(es) group mental hazards	e 2008/98/EC, cove es/waste designati paint and varnish co to Directive 2008/98 age may be recycled. Ve ation	ering waste and da ions in accordance ontaining organic s B/EC (waste framew essels not properly UN 1263 Paint PAINT Paint 3 III	ngerous wa e with EW( colvents or c vork directiv	nste. Dispose o C other dangerous re).	f waste acco s substances	rding to applica
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14.1. 14.2. 14.3. 14.4. 14.5.	disposal legislatio List of p 080111* *Hazardo Appropr Recomm Non-conf TION 14: UN numl UN prop Land tran Sea transp Transpo Packing Environn Land tran Marine p	according to directiv n. roposed waste cod Waste ous waste according iate disposal / Pack nendation taminated packages Transport inform ber or ID number er shipping name hsport (ADR/RID): sport (IMDG): bort (ICAO-TI / IATA- rt hazard class(es) group mental hazards hsport (ADR/RID)	e 2008/98/EC, cove es/waste designati paint and varnish co to Directive 2008/98 age may be recycled. Ve ation	ering waste and da ions in accordance ontaining organic s B/EC (waste framew essels not properly UN 1263 Paint PAINT Paint 3 III	ngerous wa e with EW( colvents or c vork directiv	nste. Dispose o C other dangerous re).	f waste acco s substances	rding to applica
14.1. 14.2. 14.3. 14.4. 14.5.	disposal legislatio List of p 080111* *Hazardo Appropr Recomm Non-cont TION 14: UN num UN prop Land transpo Transpo Packing Environn Land tran Marine p Special p Transpor case of a	according to directiv n. roposed waste cod Waste ous waste according iate disposal / Pack nendation taminated packages Transport inform ber or ID number er shipping name hsport (ADR/RID): sport (ICAO-TI / IATA- rt hazard class(es) group mental hazards hsport (ADR/RID) ollutant	e 2008/98/EC, cove es/waste designati paint and varnish or to Directive 2008/98 age may be recycled. Ve ation DGR): pGR):	ering waste and da ions in accordance ontaining organic s B/EC (waste framew essels not properly UN 1263 Paint PAINT Paint 3 III not applicable not applicable	ngerous wa e with EW( solvents or c vork directiv	e special waste	of waste acco s substances e.	rding to applica
14.1. 14.2. 14.3. 14.4. 14.5.	disposal legislatio List of p 080111* *Hazardo Appropr Recomm Non-conf TION 14: UN num UN prop Land trans Sea transpo Transpo Packing Environn Land trar Marine p Special p Transpor case of a Advices of	according to directiv n. roposed waste cod Waste ous waste according iate disposal / Pack nendation aminated packages Transport inform ber or ID number er shipping name hsport (ADR/RID): sport (IMDG): bort (ICAO-TI / IATA- rt hazard class(es) group mental hazards hsport (ADR/RID) ollutant precautions for use t always in closed, u in accident or leakag	e 2008/98/EC, cove es/waste designati paint and varnish or to Directive 2008/98 age may be recycled. Ve ation DGR): pGR):	ering waste and da ions in accordance ontaining organic s B/EC (waste framew essels not properly UN 1263 Paint PAINT Paint 3 III not applicable not applicable	ngerous wa e with EW( solvents or c vork directiv	e special waste	of waste acco s substances e.	rding to applica
14.1. 14.2. 14.3. 14.4. 14.5.	disposal legislatio List of p 080111* *Hazardo Appropr Recomm Non-cont TION 14: UN num UN prop Land tran Sea transp Transpo Packing Environn Land tran Marine p Special p Transpor case of a Advices o	according to directiv n. roposed waste cod Waste ous waste according iate disposal / Pack rendation taminated packages Transport inform ber or ID number er shipping name hsport (ADR/RID): sport (IMDG): bort (ICAO-TI / IATA- rt hazard class(es) group mental hazards hsport (ADR/RID) ollutant precautions for use t always in closed, u in accident or leakag on safe handling: see	e 2008/98/EC, cove es/waste designati paint and varnish or to Directive 2008/98 age may be recycled. Ve ation DGR): pGR):	ering waste and da ions in accordance ontaining organic s B/EC (waste framew essels not properly UN 1263 Paint PAINT Paint 3 III not applicable not applicable	ngerous wa e with EW( solvents or c vork directiv	e special waste	of waste acco s substances e.	rding to applica

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<b>Sea tran</b> EmS-No	isport (IMDG)	F-E, S-E		

### 14.7. Maritime transport in bulk according to IMO instruments

No transport as bulk according IBC - Code.

## **SECTION 15: Regulatory information**

# 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

## EU legislation

Directive 2010/75/EU on industrial emissions [Industrial Emissions Directive] VOC-value (in g/L): 487

## National regulations

## **Restrictions of occupation**

Observe employment restrictions under the Maternity Protection Directive 92/85/EEC or stricter national regulations, if applicable.

Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/EC) or stricter national regulations, if applicable.

# 15.2. Chemical Safety Assessment

# For the following substances of this mixture a chemical safety assessment has been carried out:

EC No. CAS No.	Designation	REACH No.
500-060-2	HDI-homopolymers	01-2119488934-20
28182-81-2		
204-658-1	n-butyl acetate	01-2119485493-29
123-86-4		
203-603-9	2-methoxy-1-methylethyl acetate	01-2119475791-29
108-65-6		
500-125-5	Isophorone diisocyanate oligomer	01-2119488734-24
53880-05-0		
215-535-7	Xylene	01-2119488216-32
1330-20-7	-	
202-849-4	ethylbenzene	01-2119489370-35
100-41-4	-	
212-485-8	hexamethylene-di-isocyanate	01-2119457571-37
822-06-0		

## **SECTION 16: Other information**

Full text of classification in section 3					
Acute Tox. 4 / H332	Acute toxicity (inhalative)	Harmful if inhaled.			
Skin Sens. 1 / H317	Respiratory or skin sensitisation	May cause an allergic skin reaction.			
STOT SE 3 / H335	STOT-single exposure	May cause respiratory irritation.			
Flam. Liq. 3 / H226	Flammable liquids	Flammable liquid and vapour.			
STOT SE 3 / H336	STOT-single exposure	May cause drowsiness or dizziness.			
Acute Tox. 4 / H312	Acute toxicity (dermal)	Harmful in contact with skin.			
Skin Irrit. 2 / H315	Skin corrosion/irritation	Causes skin irritation.			
Eye Irrit. 2 / H319	Serious eye damage/eye irritation	Causes serious eye irritation.			
STOT RE 2 / H373	STOT-repeated exposure	May cause damage to organs (or state all organs affected, if known) through prolonged or repeated exposure (state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard).			
Asp. Tox. 1 / H304	Aspiration hazard	May be fatal if swallowed and enters airways.			
Flam. Liq. 2 / H225	Flammable liquids	Highly flammable liquid and vapour.			
Acute Tox. 3 / H331	Acute toxicity (inhalative)	Toxic if inhaled.			
Resp. Sens. 1 / H334	Respiratory or skin sensitisation	May cause allergy or asthma symptoms or breathing difficulties if inhaled.			

## Classification procedure

Classification for mixtures and used evaluation method according to regulation (EC) No 1272/2008 [CLP]

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F	-lam. Liq. 3	3	Flammable liquids	On basis of test data.		
	Skin Sens.		Respiratory or skin sensitisation	Calculation method.		
5	STOT SE 3		STOT-single exposure	Calculation method.		
5	STOT SE 3		STOT-single exposure	Calculation method.		
A	Abbreviati	ons and acronym	s			
ŀ	ADR	Europe	an Agreement concerning the Internation	tional Carriage of Dangerous Goods by Road		
(	JEL	Occup	ational Exposure Limit Value			
E	3LV	Biologi	cal Limit Value			
(	CAS	Chemi	cal Abstracts Service			
(	CLP	Classif	ication, Labelling and Packaging			
(	CMR	Carcin	ogenic, Mutagenic and Reprotoxic			
[	DIN	Germa	erman Institute for Standardization / German industrial standard			
[	DNEL	Derive	ved No-Effect Level			
E	EAKV	Europe	an Waste Catalogue Directive			
	EC	Effectiv	e Concentration			
E	EC	Europe	an Community			
E	ΞN	Europe	ean Standard			
L	ATA-DGR	Interna	tional Air Transport Association - Dan	gerous Goods Regulations		
1	BC Code	Interna	tional Code for the Construction and E	Equipment of Ships carrying Dangerous Chemicals in Bulk		
I	CAO-TI	Interna	tional Civil Aviation Organization Tec	chnical Instructions for the Safe Transport of Dangerous		
		Goods	by Air			
	MDG Code	e Interna	tional Maritime Code for Dangerous G	oods		
	SO	Interna	tional Organization for Standardizatior	1		
L	_C	Lethal	Concentration			
L	D	Lethal	Dose			
Ν	MARPOL	Maritim	ne Pollution: The International Convent	tion for the Prevention of Pollution from Ships		
(	DECD	Organi	sation for Economic Cooperation and	Development		
F	PBT	persist	ent, bioaccumulative, toxic			
F	PNEC		ed No Effect Concentration			
	REACH		ation, Evaluation, Authorisation and R			
	RID		tions concerning the International Car	riage of Dangerous Goods by Rail		
	JN		Nations			
	VOC		e Organic Compounds			
Ň	/PvB	very pe	ersistent and very bioaccumulative			
		ormation				

#### **Further information**

Classification according to Regulation (EC) No 1272/2008 [CLP]

The information supplied on this safety data sheet complies with our current level of knowledge as well as with national and EU regulations. Without written approval, the product must not be used for purposes different from those mentioned in section 1. It is always the user's duty to take any necessary measures for meeting the requirements laid down by local rules and regulations. The details in this safety data sheet describe the safety requirements of our product and are not to be regarded as guaranteed attributes of the product.