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Safety data sheet according to Regulation (EC) No. 1907/2006 as amended from

time to time

Printing date 04.08.2023

Version-No. 1

· 1.1. Product	t identifier
· Trade name	/ Article-No: KLEIBERIT 510.3.05
	0X9-S00Y-WAX1
	nt identified uses of the substance / mixture <u>or</u> uses advised against
	onal users only.
	of the substance / the mixture Adhesives
<ul> <li>1.3. Details</li> <li>Manufactur</li> </ul>	of the supplier of the safety data sheet
	er/Supplier: SE & Co. KG
Max-Becker-	-Str. 4
76356 Weing	garten
Germany • Further info	ormation obtainable from:
phone: +49 (	(0) 7244 62-0
	) 7244 700-0 Dkleiberit.com
	ency telephone number:
+44 1235 23	9670 European regional number (European languages)
	ncy telephone number for Malta elandic University Hospital
<b>543 ZZ ZZ</b> IC	
SECTION	2: Hazards identification
· 2.1. Classifi	cation of the substance or mixture
· Classification	on according to Regulation (EC) No 1272/2008 - GHS/CLP
Acute Tox. 4	H332 Harmful if inhaled.
Skin Irrit. 2	H315 Causes skin irritation.
Eye Irrit. 2	•
•	1 H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Skin Sens. 1 Carc. 2	H317 May cause an allergic skin reaction.
	H351 Suspected of causing cancer.
	H335 May cause respiratory irritation.
STOT SE 3	H373 May cause damage to the respiratory system through prolonged or repeated exposure
	H373 May cause damage to the respiratory system through prolonged or repeated exposure. <u>Route of exposure:</u> Inhalation.
STOT SE 3 STOT RE 2	Route of exposure: Inhalation.
STOT SE 3	Route of exposure: Inhalation.
STOT SE 3 STOT RE 2	Route of exposure: Inhalation.
STOT SE 3 STOT RE 2	Route of exposure: Inhalation.
STOT SE 3 STOT RE 2	Route of exposure: Inhalation.
STOT SE 3 STOT RE 2	Route of exposure: Inhalation.
STOT SE 3 STOT RE 2	Route of exposure: Inhalation.
STOT SE 3 STOT RE 2	Route of exposure: Inhalation.
STOT SE 3 STOT RE 2	Route of exposure: Inhalation.

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#### Trade name / Article-No: KLEIBERIT 510.3.05 (Contd. of page 1) · Hazard statements H332 Harmful if inhaled. H315 Causes skin irritation. H319 Causes serious eye irritation. H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled. H317 May cause an allergic skin reaction. H351 Suspected of causing cancer. H335 May cause respiratory irritation. H373 May cause damage to the respiratory system through prolonged or repeated exposure. Route of exposure: Inhalation. · Precautionary statements P260 Do not breathe mist/vapours/spray. P280 Wear protective gloves / eye protection. P302+P352 IF ON SKIN: Wash with plenty of water and soap. IF INHALED: Remove person to fresh air and keep comfortable for breathing. P304+P340 P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P314 Get medical advice/attention if you feel unwell. · 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: Mixture of substances listed below with nonhazardous additions. Dangerous components: **Registry-No's** Identification / Classification GHS-CLP % CAS: 25686-28-6 methylendiphenyl diisocyanate, modified 30-40% Reg.nr.: 01-2119457013-49-XXXX Resp. Sens. 1, H334; Carc. 2, H351; STOT RE 2, H373; Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317; STOT SE 3, H335, EUH204 ATE: LC<sub>50</sub> /4 h inhalative: 11 mg/l Specific concentration limits: Skin Irrit. 2; H315: $C \ge 5 \%$ Eye Irrit. 2; H319: $C \ge 5 \%$ Resp. Sens. 1; H334: C ≥ 0.1 % STOT SE 3; C ≥ 5 % 20-30% CAS: 9048-57-1 4,4'-Methylenediphenyl diisocyanate, oligomeric reaction products with $\alpha$ -hydro- $\omega$ -hydroxypoly(oxy-1,2-ethanediyl) Resp. Sens. 1, H334; Carc. 2, H351; STOT RE 2, H373; Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317; STOT SE 3, H335 ATE: LC<sub>50</sub> /4 h inhalative: 11 mg/l CAS: 60551-33-9 1,2-Ethanediamine, polymer with 1,1'-methylenebis[4-20-30% isocyanatobenzene] homopolymer, methyloxirane and oxirane Resp. Sens. 1, H334; Carc. 2, H351; STOT RE 2, H373; Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1B, H317; STOT SE 3, H335 ATE: LC<sub>50</sub> /4 h inhalative: 11 mg/l

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#### Trade name / Article-No: KLEIBERIT 510.3.05 (Contd. of page 2) CAS: 28182-81-2 aliphatic polyisocyanate, based on HDI 3-5% Reg.nr.: 01-2119485796-17-XXXX Acute Tox. 4, H332; Skin Sens. 1, H317; STOT SE 3, H335 ATE: LC<sub>50</sub> /4 h inhalative: 11 mg/l Reg.nr.: 01-2119472146-39-XXXX hydrocarbons, C11-C12, isoalkanes, < 2% aromatics ≤3% Flam. Liq. 3, H226; Asp. Tox. 1, H304; Aquatic Chronic 4, H413 CAS: 4083-64-1 ≥0.1-<0.5% tosvl isocvanate Reg.nr.: 01-2119980050-47-XXXX Resp. Sens. 1, H334; Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335, EUH014, EUH204 Specific concentration limits: Eye Irrit. 2; H319: $C \ge 5 \%$ STOT SE 3; H335: C ≥ 5 % Skin Irrit. 2; H315: C ≥ 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: 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 and to be sure call for a doctor. In case of unconsciousness place patient stably in side position for transportation. Take affected persons into fresh air and keep quiet. • After skin contact: Treat affected skin with cotton wool or cellulose. Then wash and rinse thoroughly with water and a mild cleaning agent. If skin irritation continues, consult a doctor. • After eye contact: Rinse opened eye for several minutes under running water. Then consult a doctor. · After swallowing: Call for 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: CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam. 5.2. Special hazards arising from the substance or mixture In case of fire, the following can be released: Traces: Hydrogen cyanide (HCN) 5.3. Advice for firefighters · Protective equipment: Wear self-contained respiratory protective device. SECTION 6: Accidental release measures · 6.1. Personal precautions, protective equipment and emergency procedures

Wear protective equipment. Keep unprotected persons away.

Particular danger of slipping on leaked/spilled product.

Use respiratory protective device against the effects of fumes/dust/aerosol.

- · 6.2. Environmental precautions: No special measures required.
- 6.3. Methods and material for containment and cleaning up:

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

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		(Contd. of page
Dispose contaminated material as	s waste according to section 13.	
Ensure adequate ventilation.		
6.4. Reference to other section	5	
See Section 7 for information on		
See Section 8 for information on		
See Section 13 for disposal inform	nation.	
SECTION 7: Handling and	storage	
7.1. Precautions for safe handli	ng	
Handle the substance preferably		
Enclosure or extractor facilities an		
Ensure good ventilation. This can	be achieved by using a local exhaustion or ge	eneral exhaust system. If these
	the vapour concentration below the workplace	e limit, wear an adequate
respiratory protective device.		
Not less than 3-5 air exchanges p	per hour	
	clothing/eye protection/face protection.	
Use only in well ventilated areas.		
	nd cleaning of equipment and machines	
Avoid contact with the skin.	should life the second second state of the second	
	oduct if there is a sensitivity of the airways or sl	kin (astnma, chronic bronchitis
chronic skin disease)	nnolonly	
Allow access to authorised perso		
Handling procedures must be we		
have emergency plan in place, to Clean the pipe before decoupling	minimize impact	
General protective and hygieni	c mossuros:	
Immediately remove all soiled and		
Avoid contact with the skin.	a contaminated clothing	
Appropriate regular employee trail	ining	
Keep good industrial hygiene.		
	e, including any incompatibilities	
Storage:	,	
-	rerooms and receptacles: Keep container tig	ahtly closed.
	ne common storage facility: Observe the national	
Further information about stora		
7.3. Specific end use(s) No furth		
SECTION 8: Exposure cor	trols/personal protection	
8.1. Control parameters		
Ingredients with limit values th DNELs	at require monitoring at the workplace:	
25686-28-6 methylendiphenyl d	iisocyanate, modified	
Dermal DNEL short term 28.7	-	
Inhalative DNEL short term 0.1 m		
DNEL long term 0.05 i	ng/m3 (numan being)	
28182-81-2 aliphatic polyisocya	inate, based on HDI	
Inhalative DNEL short term 1 mg/		
-		
DNEL long term 0.5 m	g/ms (numan being)	(Contd. on page
		(Conta. on page

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· PNECs		(Contd. of page 4)				
25686-28-6 methylendipheny	diisocyanate modified					
PNEC- Freshwater	1 mg/l (not specified)					
PNEC-seawater	0.1 mg/l (not specified)					
PNEC-soil	1 mg/kg (not specified)					
PNEC-wastewater treatment p						
FNEC-wastewater treatment p	lant i mg/i (not specified)					
28182-81-2 aliphatic polyisoc	-					
PNEC- Freshwater	0.127 mg/l (not specified)					
PNEC-seawater	0.0127 mg/l (not specified)					
PNEC-periodic release	1.27 mg/l (not specified)					
PNEC-Freshwater sediment	26,670 mg/kg (not specified)					
PNEC-soil	53,182 mg/kg (not specified)					
PNEC-wastewater treatment p	lant 38.28 mg/l (not specified)					
· 8.2. Exposure controls						
limit the exposure to:						
8 hours						
<ul> <li>Appropriate engineering con</li> </ul>	<b>itrols</b> No further data; see section 7.					
· Posniratory protection:	skin protection.					
Filter A (DIN EN 14 387) Hand protection Protective glo	tive device in case of insufficient ventilation: oves ubber - NBR: AlphaTec® (> 0,4 mm) asses					
Use suitable respiratory protec Filter A (DIN EN 14 387) Hand protection Protective gld Material of gloves <u>A</u> Nitrile ru Eye/face protection Safety gla Body protection: Protective w	etive device in case of insufficient ventilation: oves ubber - NBR: AlphaTec® (> 0,4 mm) asses vork clothing					
Use suitable respiratory protect Filter A (DIN EN 14 387) • Hand protection Protective gla • Material of gloves A Nitrile ru • Eye/face protection Safety gla • Body protection: Protective w SECTION 9: Physical an	tive device in case of insufficient ventilation: oves ubber - NBR: AlphaTec® (> 0,4 mm) asses vork clothing <b>nd chemical properties</b>					
Use suitable respiratory protect Filter A (DIN EN 14 387) Hand protection Protective gla Material of gloves A Nitrile ru Eye/face protection Safety gla Body protection: Protective w SECTION 9: Physical an	etive device in case of insufficient ventilation: oves ubber - NBR: AlphaTec® (> 0,4 mm) asses vork clothing					
Use suitable respiratory protect Filter A (DIN EN 14 387) Hand protection Protective glo Material of gloves <u>A</u> Nitrile ru Eye/face protection Safety gla Body protection: Protective w SECTION 9: Physical an 9.1. Information on basic phy General Information Physical state	tive device in case of insufficient ventilation: oves ubber - NBR: AlphaTec® (> 0,4 mm) asses vork clothing d chemical properties ysical and chemical properties Fluid					
Use suitable respiratory protect Filter A (DIN EN 14 387) Hand protection Protective glo Material of gloves <u>A</u> Nitrile ru Eye/face protection Safety gla Body protection: Protective w SECTION 9: Physical an 9.1. Information on basic phy General Information Physical state Colour:	tive device in case of insufficient ventilation: oves ubber - NBR: AlphaTec® (> 0,4 mm) asses vork clothing d chemical properties ysical and chemical properties Fluid Whitish					
Use suitable respiratory protect Filter A (DIN EN 14 387) Hand protection Protective glo Material of gloves <u>A</u> Nitrile ru Eye/face protection Safety gla Body protection: Protective w SECTION 9: Physical and 9.1. Information on basic phy General Information Physical state Colour: Odour:	tive device in case of insufficient ventilation: oves ubber - NBR: AlphaTec® (> 0,4 mm) asses vork clothing <b>nd chemical properties</b> ysical and chemical properties Fluid Whitish Weak, characteristic					
Use suitable respiratory protect Filter A (DIN EN 14 387) Hand protection Protective glo Material of gloves <u>A</u> Nitrile ru Eye/face protection Safety gla Body protection: Protective w SECTION 9: Physical an 9.1. Information on basic phy General Information Physical state Colour: Odour: Odour threshold:	tive device in case of insufficient ventilation: oves ubber - NBR: AlphaTec® (> 0,4 mm) asses vork clothing <b>nd chemical properties</b> ysical and chemical properties Fluid Whitish Weak, characteristic Not determined.					
Use suitable respiratory protect Filter A (DIN EN 14 387) Hand protection Protective gla Material of gloves <u>A</u> Nitrile ru Eye/face protection Safety gla Body protection: Protective w SECTION 9: Physical an 9.1. Information on basic phy General Information Physical state Colour: Odour: Odour: Melting point/freezing point:	tive device in case of insufficient ventilation: oves ubber - NBR: AlphaTec® (> 0,4 mm) asses vork clothing <b>nd chemical properties</b> ysical and chemical properties Fluid Whitish Weak, characteristic Not determined. Undetermined.					
Use suitable respiratory protect Filter A (DIN EN 14 387) Hand protection Protective gla Material of gloves A Nitrile ru Eye/face protection Safety gla Body protection: Protective w SECTION 9: Physical an 9.1. Information on basic phy General Information Physical state Colour: Odour: Odour threshold: Melting point/freezing point: Boiling point or initial boiling	tive device in case of insufficient ventilation: oves ubber - NBR: AlphaTec® (> 0,4 mm) asses vork clothing <b>nd chemical properties</b> ysical and chemical properties Fluid Whitish Weak, characteristic Not determined. Undetermined. g point and boiling					
Use suitable respiratory protect Filter A (DIN EN 14 387) Hand protection Protective gla Material of gloves A Nitrile ru Eye/face protection Safety gla Body protection: Protective w SECTION 9: Physical and 9.1. Information on basic phy General Information Physical state Colour: Odour: Odour: Melting point/freezing point: Boiling point or initial boiling range	tive device in case of insufficient ventilation: oves ubber - NBR: AlphaTec® (> 0,4 mm) asses vork clothing <b>nd chemical properties</b> ysical and chemical properties Fluid Whitish Weak, characteristic Not determined. Undetermined. g point and boiling >190 °C					
Use suitable respiratory protect Filter A (DIN EN 14 387) Hand protection Protective gla Material of gloves A Nitrile ru Eye/face protection Safety gla Body protection: Protective w SECTION 9: Physical and 9.1. Information on basic phy General Information Physical state Colour: Odour: Odour threshold: Melting point/freezing point: Boiling point or initial boiling range Flammability	tive device in case of insufficient ventilation: oves ubber - NBR: AlphaTec® (> 0,4 mm) asses vork clothing <b>nd chemical properties</b> ysical and chemical properties Fluid Whitish Weak, characteristic Not determined. Undetermined. g point and boiling >190 °C Not applicable.					
Use suitable respiratory protect Filter A (DIN EN 14 387) Hand protection Protective gla Material of gloves A Nitrile ru Eye/face protection Safety gla Body protection: Protective w SECTION 9: Physical and 9.1. Information on basic phy General Information Physical state Colour: Odour: Odour: Melting point/freezing point: Boiling point or initial boiling range	tive device in case of insufficient ventilation: oves ubber - NBR: AlphaTec® (> 0,4 mm) asses vork clothing <b>nd chemical properties</b> ysical and chemical properties Fluid Whitish Weak, characteristic Not determined. Undetermined. g point and boiling >190 °C Not applicable.					
Use suitable respiratory protect Filter A (DIN EN 14 387) Hand protection Protective gla Material of gloves A Nitrile ru Eye/face protection Safety gla Body protection: Protective w SECTION 9: Physical and 9.1. Information on basic phy General Information Physical state Colour: Odour: Odour threshold: Melting point/freezing point: Boiling point or initial boiling range Flammability Lower and upper explosion I	tive device in case of insufficient ventilation: oves ubber - NBR: AlphaTec® (> 0,4 mm) asses vork clothing <b>nd chemical properties</b> ysical and chemical properties Fluid Whitish Weak, characteristic Not determined. undetermined. g point and boiling >190 °C Not applicable. limit Not determined. Not determined.					
Use suitable respiratory protect Filter A (DIN EN 14 387) Hand protection Protective gla Material of gloves <u>A</u> Nitrile ru Eye/face protection Safety gla Body protection: Protective w SECTION 9: Physical an 9.1. Information on basic phy General Information Physical state Colour: Odour: Odour threshold: Melting point/freezing point: Boiling point or initial boiling range Flammability Lower and upper explosion I Cover: Upper: Flash point:	tive device in case of insufficient ventilation: oves ubber - NBR: AlphaTec® (> 0,4 mm) asses vork clothing <b>nd chemical properties</b> ysical and chemical properties Fluid Whitish Weak, characteristic Not determined. Undetermined. g point and boiling >190 °C Not applicable. limit Not determined. 200 °C					
Use suitable respiratory protect Filter A (DIN EN 14 387) Hand protection Protective gla Material of gloves <u>A</u> Nitrile ru Eye/face protection Safety gla Body protection: Protective w SECTION 9: Physical an 9.1. Information on basic phy General Information Physical state Colour: Odour: Odour: Melting point/freezing point: Boiling point or initial boiling range Flammability Lower and upper explosion I Lower: Upper: Flash point: Auto-ignition temperature:	tive device in case of insufficient ventilation: oves ubber - NBR: AlphaTec® (> 0,4 mm) asses vork clothing <b>nd chemical properties</b> ysical and chemical properties Fluid Whitish Weak, characteristic Not determined. Undetermined. g point and boiling >190 °C Not applicable. limit Not determined. 200 °C Not applicable.					
Use suitable respiratory protect Filter A (DIN EN 14 387) Hand protection Protective gla Material of gloves A Nitrile ru Eye/face protection Safety gla Body protection: Protective w SECTION 9: Physical and 9.1. Information on basic phy General Information Physical state Colour: Odour: Odour threshold: Melting point/freezing point: Boiling point or initial boiling range Flammability Lower and upper explosion I Lower: Upper: Flash point: Auto-ignition temperature: Decomposition temperature:	tive device in case of insufficient ventilation: oves ubber - NBR: AlphaTec® (> 0,4 mm) asses vork clothing <b>nd chemical properties</b> ysical and chemical properties Fluid Whitish Weak, characteristic Not determined. Undetermined. 9 point and boiling >190 °C Not applicable. limit Not determined. 200 °C Not applicable. Not determined.					
Use suitable respiratory protect Filter A (DIN EN 14 387) Hand protection Protective gla Material of gloves A Nitrile ru Eye/face protection Safety gla Body protection: Protective w SECTION 9: Physical and 9.1. Information on basic phy General Information Physical state Colour: Odour: Odour threshold: Melting point/freezing point: Boiling point or initial boiling range Flammability Lower and upper explosion I Lower: Upper: Flash point: Auto-ignition temperature: Decomposition temperature: pH	tive device in case of insufficient ventilation: oves ubber - NBR: AlphaTec® (> 0,4 mm) asses vork clothing <b>nd chemical properties</b> ysical and chemical properties Fluid Whitish Weak, characteristic Not determined. Undetermined. g point and boiling >190 °C Not applicable. limit Not determined. 200 °C Not applicable.					
Use suitable respiratory protect Filter A (DIN EN 14 387) Hand protection Protective gld Material of gloves A Nitrile ru Eye/face protection Safety gld Body protection: Protective w SECTION 9: Physical and 9.1. Information on basic phy General Information Physical state Colour: Odour: Odour threshold: Melting point/freezing point: Boiling point or initial boiling range Flammability Lower and upper explosion I Lower: Upper: Flash point: Auto-ignition temperature: Decomposition temperature:	tive device in case of insufficient ventilation: oves ubber - NBR: AlphaTec® (> 0,4 mm) asses vork clothing d chemical properties ysical and chemical properties Fluid Whitish Weak, characteristic Not determined. Undetermined. 9 point and boiling >190 °C Not applicable. limit Not determined. 200 °C Not applicable. Not determined.					

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· Dynamic at 20 °C:	ca. 68.000 mPas			
	Brookfield ( <u>6 / 20 rpm)</u>			
· Solubility				
· water:	Not miscible or difficult to mix.			
<ul> <li>Partition coefficient n-octanol/water (log value)</li> </ul>	Not determined.			
· Vapour pressure:	Not determined.			
<ul> <li>Density and/or relative density</li> </ul>				
<sup>·</sup> Density at 20 °C:	ca. 1.13 g/cm³			
· Relative density	Not determined.			
· Vapour density	Not determined.			
• 9.2. Other information				
· Appearance:				
· Form:	Fluid			
· Important information on protection of health and				
environment, and on safety.				
Ignition temperature:	Product is not selfigniting.			
Explosive properties:	Product does not present an explosion hazard.			
Solvent separation test:				
Organic solvents:	2.5 %			
· Change in condition				
· Evaporation rate	Not determined.			
Information with regard to physical hazard classes	5			
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			
<sup>•</sup> Pyrophoric solids	Void			
Self-heating substances and mixtures	Void			
<sup>•</sup> Substances and mixtures, which emit flammable				
gases in contact with water	Void			
· Oxidising liquids	Void			
· Oxidising solids	Void			
· Organic peroxides	Void			
· Corrosive to metals	Void			
Desensitised explosives	Void			

## **SECTION 10: Stability and reactivity**

· 10.1. Reactivity

see item 10.3

No further relevant information available.

· 10.2. Chemical stability Stable when stored and used properly.

• Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.

10.3. Possibility of hazardous reactions No dangerous reactions known.

• **10.4. Conditions to avoid** No further relevant information available.

 $\cdot$  10.5. Incompatible materials: No further relevant information available.

· 10.6. Hazardous decomposition products: Isocyanates

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#### Trade name / Article-No: KLEIBERIT 510.3.05 (Contd. of page 6) **SECTION 11: Toxicological information** 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008 · Acute toxicity Harmful if inhaled. · LD/LC<sub>50</sub> values relevant for classification: 25686-28-6 methylendiphenyl diisocyanate, modified $LD_{50}$ 5,001 mg/kg (rat) Oral Dermal LD<sub>50</sub> 9,401 mg/kg (rabbit) Inhalative LC<sub>50</sub>/4h<sub>(dust,mist)</sub> 0.49 mg/l (rat) 9048-57-1 4,4'-Methylenediphenyl diisocyanate, oligomeric reaction products with $\alpha$ -hydro- $\omega$ hydroxypoly(oxy-1,2-ethanediyl) Inhalative LC<sub>50</sub>/4h<sub>(dust,mist)</sub> 0.49 mg/l (rat) 60551-33-9 1,2-Ethanediamine, polymer with 1,1'-methylenebis[4-isocyanatobenzene] homopolymer, methyloxirane and oxirane Inhalative LC<sub>50</sub> /4 h 11 mg/l (ATE) 28182-81-2 aliphatic polyisocyanate, based on HDI Oral $LD_{50}$ >2,500 mg/kg (rat) weibliche Ratte >2500 mg/kg Dermal LD<sub>50</sub> >2,000 mg/kg (rabbit) (OECD 402) >2,000 mg/kg (rat) (OECD 402) Inhalative LC<sub>50</sub> /4 h 11 mg/l (ATE) hydrocarbons, C11-C12, isoalkanes, < 2% aromatics Oral $LD_{50}$ >5,000 mg/kg (rat) Dermal $LD_{50}$ >5,000 mg/kg (rabbit) Inhalative LC<sub>50</sub> /4 h >5,000 mg/l (rat) 4083-64-1 tosyl isocyanate Oral 2,600 mg/kg (rat) $LD_{50}$ · Skin corrosion/irritation Causes skin irritation. · Serious eye damage/irritation Causes serious eye irritation. · Respiratory or skin sensitisation May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause an allergic skin reaction. • Germ cell mutagenicity Based on available data, the classification criteria are not met. · Carcinogenicity Suspected of causing cancer. • Reproductive toxicity Based on available data, the classification criteria are not met. · STOT-single exposure May cause respiratory irritation. · STOT-repeated exposure May cause damage to the respiratory system through prolonged or repeated exposure. Route of exposure: Inhalation. · Aspiration hazard Based on available data, the classification criteria are not met. · 11.2 Information on other hazards Endocrine disrupting properties None of the ingredients is listed. (Contd. on page 8)

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SECTION 12: Ecological informat	tion
12.1. Toxicity Aquatic toxicity:	
<b>25686-28-6 methylendiphenyl diisocyana</b> $LC_{50}$ 1,001 mg / I / 96h (fish) $EC_{50}$ 1,001 mg / I / 24h (water flea - daphnia $EC_{50}$ 1,641 mg / I / 72h (algae)	
<b>28182-81-2 aliphatic polyisocyanate, bas</b> $LC_{50} > 100 \text{ mg} / I / 96h (Zebrafish - Danio reEC_{50} > 100 \text{ mg} / I / 48h (water flea - daphnia)EC_{50} > 100 \text{ mg} / I / 72h (algae)12.2. Persistence and degradability No fu$	erio) a)
<ul> <li>12.3. Bioaccumulative potential No further</li> <li>12.4. Mobility in soil No further relevant in</li> <li>12.5. Results of PBT and vPvB assessm</li> <li>PBT: Not applicable.</li> <li>vPvB: Not applicable.</li> <li>12.6 Endocrine disrupting properties</li> <li>The product does not contain substances v</li> <li>12.7 Other adverse effects</li> <li>Behaviour in sewage processing plants:</li> </ul>	nformation available. Ient with endocrine disrupting properties.
Remark: At correct sewage disposal in small quantiti not expected. Additional ecological information:	: ies to biological sewage plants failures of the activated sludge are rman Regulation) (Self-assessment): slightly hazardous for water
Remark: At correct sewage disposal in small quantition additional ecological information: General notes: Water hazard class 1 (General notes: Use the second notes: Water hazard class 1 (General notes: Water hazard class 1 (General notes: Uncleaned notes: Water hazard class 1 (General notes: Water hazard class 1 (General notes: Uncleaned notes: Uncleaned notes: Water hazard class 1 (General notes: Note: No	ties to biological sewage plants failures of the activated sludge are rman Regulation) (Self-assessment): slightly hazardous for water tions hold garbage. Do not allow product to reach sewage system.
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## Safety data sheet

according to Regulation (EC) No. 1907/2006 as amended from

time to time

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## 14.6. Special precautions for user 14.7. Maritime transport in bulk according to IMO

Not applicable.

instruments

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

• **15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture** See position no 2 - Hazards Identification

- Directive 2012/18/EU Seveso-III:
- · Named dangerous substances ANNEX I None of the ingredients is included.
- · Regulation (EC) No 1907/2006 REACH, ANNEX XVII Conditions of restriction: 3
- Regulation (EU) No 649/2012

None of the ingredients is listed.

DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II

None of the ingredients is listed.

- **REGULATION (EU) 2019/1148**
- Annex I RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))

None of the ingredients is listed.

Annex II - REPORTABLE EXPLOSIVES PRECURSORS

None of the ingredients is listed.

Regulation (EC) No 273/2004 on drug precursors

None of the ingredients is listed.

• Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors

None of the ingredients is listed.

National regulations:

- · D: Waterhazard class Water hazard class 1 (Self-assessment): slightly hazardous for water.
- Other regulations, limitations and prohibitive regulations: For professional users only.
- · VOC 2010/75/EU [g/L]: <25.0 g/l
- · VOC 2010/75/EU [%]: <3.00 %

· 15.2. Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

#### **SECTION 16: Other information**

This information is based on our present knowledge. However, this 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.
- H304 May be fatal if swallowed and enters airways.
- H315 Causes skin irritation.
- H317 May cause an allergic skin reaction.
- H319 Causes serious eye irritation.
- H332 Harmful if inhaled.
- H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
- H335 May cause respiratory irritation.
- H351 Suspected of causing cancer.
- H373 May cause damage to organs through prolonged or repeated exposure.
- H413 May cause long lasting harmful effects to aquatic life.

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(Contd.) EUH014 Reacts violently with water.	of page 9)
EUH204 Contains isocyanates. May produce an allergic reaction.	
<ul> <li>Department issuing SDS: Safety &amp; Environment</li> <li>Abbreviations and acronyms:</li> <li>ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)</li> <li>IMDG: International Maritime Code for Dangerous Goods</li> <li>DOT: US Department of Transportation</li> <li>IATA: International Air Transport Association</li> <li>GHS: Globally Harmonised System of Classification and Labelling of Chemicals</li> <li>EINECS: European Inventory of Existing Commercial Chemical Substances</li> <li>ELINCS: European List of Notified Chemical Substances</li> <li>CAS: Chemical Abstracts Service (division of the American Chemical Society)</li> <li>DNEL: Derived No-Effect Concentration (REACH)</li> <li>LCS0: Lethal concentration, 50 percent</li> <li>LDS0: Lethal dose, 50 percent</li> <li>PBT: Persistent, Bioaccumulative and Toxic</li> <li>vPVB: very Persistent and very Bioaccumulative</li> <li>Flam. Liq, 3: Flammable liquids – Category 2</li> <li>Eye Inti. 2: Skin corrosion/irritation – Category 2</li> <li>Eye Inti. 2: Skin sensitisation – Category 1</li> <li>Skin Sens. 1: Skin sensitisation – Category 2</li> <li>STOT SE 3: Specific target organ toxicity (repeated exposure) – Category 2</li> <li>Asp. Tox. 1: Aspiration hazard – Category 1</li> </ul>	
Aquatic Chronic 4: Hazardous to the aquatic environment - long-term aquatic hazard – Category 4	——— EU —