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

Printing date 06.12.2021

Version-No. 2 (replaces version 1)

Revision: 06.12.2021

SECTION 1: Identification	of the substance/mixture and of the company/undert	aking
· 1.1. Product identifier		<u>-</u>
· Trade name / Article-No: KLEIBI	erit 706.1.50 ME	
	<b>the substance / mixture <u>or</u> uses advised against</b> ailable.	
<ul> <li>1.3. Details of the supplier of the Manufacturer/Supplier: KLEIBERIT SE &amp; Co. KG Max-Becker-Str. 4 D - 76356 Weingarten / Baden Germany</li> <li>Further information obtainable f phone: +49 (0) 7244 62-0 FAX: +49 (0) 7244 700-0 E-Mail: hse@kleiberit.com</li> <li>1.4. Emergency telephone number</li> </ul>		ıges)
SECTION 2: Hazards ident	ification	
	nce or mixture ulation (EC) No 1272/2008 - GHS/CLP azardous to health or environment according to the CLP regulation.	
<ul> <li>2.2. Label elements</li> <li>Hazard pictograms Void</li> <li>Signal word Void</li> <li>Hazard statements Void</li> <li>Additional information: Contains isocyanates. May product Safety data sheet available on req</li> <li>2.3. Other hazards</li> <li>Results of PBT and vPvB asses</li> <li>PBT: Not applicable.</li> <li>vPvB: Not applicable.</li> </ul>	uest.	
SECTION 2: Composition/	information on ingradianta	
· 3.2 Mixtures	information on ingredients es listed below with nonhazardous additions.	
<ul> <li>Dangerous components:</li> </ul>		
· Registry-No's Iden	ntification / Classification GHS-CLP	%
CAS: 101-68-8 Reg.nr.: 01-2119457014-47-XXXX	diphenylmethane-4,4'-diisocyanate (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 Specific concentration limits: Skin Irrit. 2; H315: $C \ge 5$ % Eye Irrit. 2; H319: $C \ge 5$ % Resp. Sens. 1; H334: $C \ge 0.1$ % STOT SE 3; $C \ge 5$ %	<0.1%
	(60///0	EU

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(Contd. of page 1) • 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: No special measures required. · After inhalation: Supply fresh air; consult doctor in case of complaints. · After skin contact: After contact with the molten product, cool rapidly with cold water. Rinse with warm water. · After eve contact: Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor. · After swallowing: Rinse out mouth with plenty of water. Seek medical treatment. · 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: Isocyanates Nitrogen oxides (NOx) 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 Not required. · 6.2. Environmental precautions: No special measures required. . 6.3. Methods and material for containment and cleaning up: Pick up mechanically. · 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 disposal information. SECTION 7: Handling and storage · 7.1. Precautions for safe handling Prevent formation of dust. · 7.2. Conditions for safe storage, including any incompatibilities · Storage: · Requirements to be met by storerooms and receptacles: Keep container tightly closed. • Information about storage in one common storage facility: Observe the national regulations. • Further information about storage conditions: Protect from humidity and water. · 7.3. Specific end use(s) No further relevant information available.

(Contd. on page 3)

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(Contd. of page 2)

8.1. Control parameters		
Ingredients with limit values DNELs	that require monitoring at the workplace:	
101-68-8 diphenylmethane-4,	4'-diisocyanate	
Dermal DNEL short term 50	mg/kg (human being)	
Inhalative DNEL short term 0.1	mg/m3 (human being)	
	5 mg/m3 (human being)	
PNECs		
101-68-8 diphenylmethane-4,	4'-diisocyanate	
PNEC- Freshwater	1 mg/l (not specified)	
PNEC-seawater	0.1 mg/l (not specified)	
PNEC-periodic release	10 mg/l (not specified)	
PNEC-Freshwater sediment	1 mg/kg (not specified)	
PNEC-soil	1 mg/kg (not specified)	
PNEC-wastewater treatment pl	lant 1 mg/l (not specified)	
Ingredients with biological I	limit values:	
101-68-8 diphenylmethane-4,	4'-diisocvanate	
BGW (Germany) 10 µg/g Kreat	-	
Untersuchung	gsmaterial: Urin	
	ezeitpunkt: Expositionsende bzw. Schichtende .4'-Diaminodiphenylmethan	
CAS No. Designation of ma 101-68-8 diphenylmethane-4,		
<b>101-68-8 diphenylmethane-4</b> , AGW (Germany) Long-term va	4'-diisocyanate	
101-68-8 diphenylmethane-4, AGW (Germany) Long-term va 1;=2=(I);DFG 8.2. Exposure controls 8 hour Appropriate engineering con	<b>4'-diisocyanate</b> Jue: 0.05 E mg/m <sup>3</sup> , 11, 12, H, Sah, Y rs <b>trols</b> No further data; see item 7.	
<ul> <li>101-68-8 diphenylmethane-4, AGW (Germany) Long-term va 1;=2=(I);DFG</li> <li>8.2. Exposure controls 8 hour Appropriate engineering con</li> <li>Individual protection measur General protective and hygie The usual precautionary measur Respiratory protection: Filter Hand protection Protective gloves Heat resistant gloves</li> <li>Material of gloves Leather glo</li> <li>Eye/face protection: Protective w</li> </ul>	<b>4'-diisocyanate</b> Jue: 0.05 E mg/m <sup>3</sup> 5, 11, 12, H, Sah, Y rs <b>trols</b> No further data; see item 7. <b>res, such as personal protective equipment</b> <b>enic measures:</b> ures are to be adhered to when handling chemicals. A/P2 (EN 14387) oves asses rork clothing	
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Meting point/frequing point         Undetermined.           Boiling point or initial boiling point and boiling range         Undetermined.           Flammability         Not determined.           I cover and upper explosion limit         Not determined.           Lower:         Not determined.           Upper:         Not determined.           Auto-ignition temperature:         Product is not selfigniting.           Decomposition temperature:         Not determined.           pH         Not determined.           Viscosity:         At room temperature: not applicable           Kinematic viscosity         Not applicable.           Solubility         Not applicable.           Variantic enderstree         Not applicable.           Particion coefficient n-octanol/water (log value)         Not applicable.           Particion coefficient n-octanol/water (log value)         Not determined.           Vapour pressure:         ca. 1.1 g/cm³           Density atolor relative density         Not applicable.           Density atolor relative density         Not applicable.           Particie characteristics         See item 3.           9.2. Other information         Product is not selfigniting.           Appearance:         Form:           Form:         Solid <th></th> <th></th>		
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Corrosive to metals Void		
	Desensitised explosives	Void (Contd. on page 5)

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### **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.
- **10.5. Incompatible materials:** No further relevant information available.
- · 10.6. Hazardous decomposition products: Isocyanates

#### Additional information:

When hotmelt adhesives are melted and applied, vapours are set free and an unpleasant odour can occur, even if the recommended working temperature has been observed. Moreover if the prescribed working temperature is exceeded over a longer period, harmful decomposition products can develop. Precautions should be taken to eliminate the vapours, e.g. by using a suitable ventilation system. Therefore measures for the elimination of the vapours have to be taken, e.g. by means of an appropriate ventilation/ exhaust device.

#### **SECTION 11: Toxicological information**

- 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008
- · Acute toxicity Based on available data, the classification criteria are not met.
- LD/LC<sub>50</sub> values relevant for classification:

#### 101-68-8 diphenylmethane-4,4'-diisocyanate

Oral LD<sub>50</sub> >2,000 mg/kg (rat) (84/449/EWG, B.1)

Dermal  $LD_{50}$  >9,400 mg/kg (rabbit) (OECD 402)

Inhalative LC<sub>50</sub> /4 h 1.5 mg/l (not specified) (Calculation (ATE))

· Skin corrosion/irritation Based on available data, the classification criteria are not met.

• Serious eye damage/irritation Based on available data, the classification criteria are not met.

- Respiratory or skin sensitisation Based on available data, the classification criteria are not met.
- · Germ cell mutagenicity Based on available data, the classification criteria are not met.
- · Carcinogenicity Based on available data, the classification criteria are not met.
- **Reproductive toxicity** Based on available data, the classification criteria are not met.
- STOT-single exposure Based on available data, the classification criteria are not met.
- STOT-repeated exposure Based on available data, the classification criteria are not met.

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

· 11.2 Information on other hazards

Endocrine disrupting properties

None of the ingredients is listed.

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

#### · 12.1. Toxicity

· Aquatic toxicity:

#### 101-68-8 diphenylmethane-4,4'-diisocyanate

LC<sub>50</sub> >1,000 mg / I / 96h (fish)

 $EC_{50} > 1,000 \text{ mg} / I / 24h \text{ (water flea - daphnia)}$ 

IC<sub>50</sub> >1,640 mg / I / 72h (algae)

12.2. Persistence and degradability No further relevant information available.

• **12.3. Bioaccumulative potential** No further relevant information available.

12.4. Mobility in soil No further relevant information available.

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• <b>12.5. Results of PBT and vPvB assessment</b> • <b>PBT:</b> Not applicable.				
• PBT: Not applicable.				
vPvB: Not applicable.				
12.6 Endocrine disrupting properties				
The product does not contain substances with a	endocrine disrupting properties.			
12.6. Other adverse effects				
Behaviour in sewage processing plants: Remark:				
	to biological sewage plants failures of the activated sludge are			
not expected.	to biological sewage plants failures of the delivated sladge are			
Additional ecological information:				
General notes:				
Not known to be hazardous to water.				
Water hazard class 1 (German Regulation) (Se	elf-assessment): slightly hazardous for water			
SECTION 421 Dispassed consideration				
SECTION 13: Disposal consideration	ns			
13.1. Waste treatment methods				
	ousehold garbage in small quantities after curing.			
European waste catalogue				
08 04 10 waste adhesives and sealants other the	han those mentioned in 08 04 09			
Uncleaned packaging:				
Recommendation:				
Non contaminated packagings may be recycled				
Empty contaminated packagings thoroughly. D	hisposal must be made according to official regulations.			
SECTION 14: Transport information				
14.1. UN number or ID number				
ADR, IMDG, IATA	Void			
14.2. UN proper shipping name				
DOT, ADR, IMDG, IATA	Void			
14.3. Transport hazard class(es)				
Class	Void			
14.4. Packing group				
ADR, IMDG, IATA	Void			
14.5. Environmental hazards:	Not applicable.			
14.6. Special precautions for user	Not applicable.			
14.7. Maritime transport in bulk according to	o IMO			
instruments	Not applicable.			
	n			

· 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.

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· 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.

· 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

- 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.
- EUH204 Contains isocyanates. May produce an allergic reaction.
- · Department issuing SDS: Safety & Environment

#### Version number of previous version: 1

#### Abbreviations and acronyms:

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 DOT: US Department of Transportation 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 (RÈACH) PNEC: Predicted No-Effect Concentration (REACH) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative Acute Tox. 4: Acute toxicity – Category 4 Skin Irrit. 2: Skin corrosion/irritation - Category 2 Eye Irrit. 2: Serious eye damage/eye irritation - Category 2 Resp. Sens. 1: Respiratory sensitisation - Category 1 Skin Sens. 1: Skin sensitisation – Category 1 Carc. 2: Carcinogenicity – Category 2 STOT SE 3: Specific target organ toxicity (single exposure) - Category 3 STOT RE 2: Specific target organ toxicity (repeated exposure) - Category 2