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

Printing date 24.02.2021

Version-No. 4

SECTION 1: Identification of the substance/mixture and of the company/u	ndertaking
· 1.1. Product identifier	lacitating
Trade name / Article-No: KLEIBERIT <b>712.6</b>	
<ul> <li>• UFI: H80G-X039-S00S-E0FR</li> <li>• 1.2. Relevant identified uses of the substance / mixture or uses advised against Restricted to professional users.</li> <li>• Application of the substance / the mixture Adhesives</li> </ul>	
<ul> <li>1.3. Details of the supplier of the safety data sheet</li> <li>Manufacturer/Supplier: KLEIBERIT SE &amp; Co. KG Max-Becker-Str. 4 D - 76356 Weingarten / Baden Germany</li> <li>Further information obtainable from: phone: +49 (0) 7244 62-0 FAX: +49 (0) 7244 700-0 E-Mail: hse@kleiberit.com</li> <li>1.4. Emergency telephone number: +44 1235 239670 European regional number (European languages) +44 1235 239671 Middle Eastern/African regional number (Middle Eastern/African languages) +1 215 207 0061 Americas regional number (English, Spanish, Portuguese) +65 3158 1412 Asia Pacific regional number (English, Bahasa, Malaysia, Hindi, Japanese, Korean, Mandarin, Tagalog)</li> </ul>	
SECTION 2: Hazards identification	
<ul> <li>• 2.1. Classification of the substance or mixture</li> <li>• Classification according to Regulation (EC) No 1272/2008 - GHS/CLP</li> <li>Resp. Sens. 1 H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.</li> <li>Skin Sens. 1 H317 May cause an allergic skin reaction.</li> <li>Carc. 2 H351 Suspected of causing cancer.</li> </ul>	
2.2. Label elements Hazard pictograms	
GHS08	
· Signal word Danger	
<ul> <li>Hazard-determining components of labelling: diphenylmethane-4,4'-diisocyanate</li> <li>Hazard statements</li> <li>H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.</li> <li>H317 May cause an allergic skin reaction.</li> <li>H351 Suspected of causing cancer.</li> </ul>	(Contd. on page 2)

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<ul> <li>Precautionary statements P261 Avoid breathing vapours. P280 Wear protective gloves. P314 Get medical advice/attention if you feel unwell. </li> <li>Additional information: Contains isocyanates. May produce an allergic reaction. Information concerning particular hazards for human and environment:</li></ul>	<sup>r</sup> page 1)
SECTION 3: Composition/information on ingredients	
<ul> <li>• 3.2 Mixtures</li> <li>• Description: Mixture of substances listed below with nonhazardous additions.</li> </ul>	
· Dangerous components:	
Registry-No's Identification / Classification GHS-CLP	%
Reg.nr.: 01-2119457014-47-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 Specific concentration limits: Skin Irrit. 2; H315: C ≥ 5 % Eye Irrit. 2; H319: C ≥ 5 % Resp. Sens. 1; H334: C ≥ 0.1 % STOT SE 3; C ≥ 5 %	<2.5%
• 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         • 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 cleagent.         Immediately wash with water and soap and rinse thoroughly.         If skin irritation continues, consult a doctor.         • After eye contact:         Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.         • After swallowing: Call for a doctor immediately.         • 4.2. Most important symptoms and effects, both acute and delayed         Asthma attacks         Allergic reactions	
(Contd. on	page 3)

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## Trade name / Article-No: KLEIBERIT 712.6

• **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** Wear protective equipment. Keep unprotected persons away.

- 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:

Dispose contaminated material as waste according to item 13. Ensure adequate ventilation.

- 6.4. Reference to other sections
- See Section 7 for information on safe handling.
- See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

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

### 7.1. Precautions for safe handling

Enclosure or extractor facilities are required.

Wear protective gloves/protective clothing/eye protection/face protection.

Not less than 3-5 air exchanges per hour

Spraying: in vented cabin with laminar air flow

Contact with skin and inhalation of aerosols/ vapours of the preparation should be avoided.

Handle the substance preferably in closed system

Ensure good ventilation. This can be achieved by using a local exhaustion or general exhaust system. If these measures are insufficient to keep the vapour concentration below the workplace limit, wear an adequate respiratory protective device.

Appropriate regular employee training.

Use only in well ventilated areas.

Prevent formation of dust.

Wear suitable respiratory protective device when decanting larger quantities without extractor facilities.

Avoid contact with skin and eyes.

It is advised against using the product if there is a sensitivity of the airways or skin (asthma, chronic bronchitis, chronic skin disease)

additional to professional application with multiple and/or significant contact

limit the exposure to 4 hours

General protective and hygienic measures: Immediately remove all soiled and contaminated clothing

· 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.

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SECTION 8: Exposure controls/personal protection         8.1. Control parameters         Ingredients with limit values that require monitoring at the workplace: DNELs         DNELs short term 0.1 mg/m3 (human being) DNEL long term 0.15 mg/m3 (human being) DNEL long term 0.05 mg/m3 (human being)         DNECS         101-68-8 diphenylmethane-4,4'-diisocyanate PNEC> Freshwater         PNECS         101-68-8 diphenylmethane-4,4'-diisocyanate PNEC>-proshwater         PNECS         101-68-8 diphenylmethane-4,4'-diisocyanate PNEC>-proshwater         PNECS-seawater         0.1 mg/l (not specified)         PNEC-sericl crieease         PNEC-sericl crieease         10 mg/l (not specified)         PNEC-sericl crieease         PNEC-sericl crieease         10 mg/l (not specified)         PNEC-sericl crieease         PNEC-sericl crieease         10 mg/lg Kreatinin         Undersection dometrial         Probennalmezelipunkt: Expositionsende bzw. Schichtende         Parameter: do: Optimizer doi de exposure         Parameter: do: Optimis         Sampling	7.3. Specific end	use(s) No further relevant information available.	(Contd. of page
Ingredients with limit values that require monitoring at the workplace: DNELs         101-83-8 diphenylmethane-4,4'-diisocyanate Dermal DNEL short term 0.1 mg/m3 (human being) DNEL long term 0.05 mg/m3 (human being) DNEL long term 0.05 mg/m3 (human being)         101-63-8 diphenylmethane-4,4'-diisocyanate PNECs         101-63-8 diphenylmethane-4,4'-diisocyanate PNEC- Freshwater         1 mg/l (not specified) PNEC-seawater         0.1 mg/l (not specified) PNEC-seawater         0.1 mg/l (not specified) PNEC-seawater treatment plant 1 mg/kg (not specified) PNEC-vasitewater treatment plant 1 mg/kg (not specified)         PNECereshwater treatment plant 1 mg/kg (not specified)         PNECereshwater treatment plant 1 mg/kg (not specified)         PNEC-reshwater treatment plant 1 mg/kg (not specified)         PNECereshwater treatment plant 1 mg/kg (not specified)         Ingredients with biological limit values:         101-68-8 diphenylmethane-4,4'-diisocyanate         BGW (Germany)       10 µg/g Kreatinin Untersuchungsmaterial: Urin Probennahmezeitpunkt: Expositionsende bzw. Schichtende Parameter: 4-1-Dianinodiphenylmethan         BMGV (Great Britain) 1 µmol creatinine/mol Medium: urine Sampling time: At the end of the period od exposure Parameter: 4-1-Dianinodiphenylmethane         CAS No. Designation of material % Type Value Unit         101-68-8 diphenylmethane-4,4'-diisocyanate         AGW (Germany)       Long-term value: 0.05 mg/m³ .sen: as -NCO         PEL (USA)       Ceiling limit: 0.2 mg/m³,	SECTION 8: E	xposure controls/personal protection	
DNELs         101-68-3 diphenylmethane-4,4'-diisocyanate         Dermal       DNEL short term 0.05 mg/m3 (human being)         DNEL long term       0.05 mg/m3 (human being)         DNEC       DNEL long term         101-68-3 diphenylmethane-4,4'-diisocyanate         PNEC-       Freshwater         101-68-3 diphenylmethane-4,4'-diisocyanate         PNEC-Freshwater       1 mg/l (not specified)         PNEC-periodic release       10 mg/l (not specified)         PNEC-soil       1 mg/kg (not specified)         PNEC-soil       1 mg/kg (not specified)         PNEC-vastewater treatment plant 1 mg/l (not specified)       Ingredients with biological limit values:         101-68-8 diphenylmethane-4,4'-diisocyanate       BGW (Germany)       10 µg/g Kreatinin         Untersuchungsmaterial: Urin Probennahmezeitpunkt: Expositionsende bzw. Schichtende Parameter: isozyanate-derived diamine       Parameter: isozyanate-derived diamine         BMGV (Great Britain) 1 µm0 creatinine/mol Medium: urine Sampling time: At the end of the period od exposure Parameter: isozyanate-derived diamine         CAS No. Designation of material % Type Value Unit       101-68-8 diphenylmethane-4,4'-diisocyanate         101-68-8 diphenylmethane-4,4'-diisocyanate       AGW (Germany)         Long-term value: 0.05 E mg/m3	8.1. Control para	meters	
Dermal DNEL short term 50 mg/kg (numan being) Inhalative DNEL short term 0.1 mg/m3 (human being) DNEL long term 0.05 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-seawater 1 mg/kg (not specified) PNEC-soil 1 mg/kg (not specified) PNEC-vastewater treatment plant 1 mg/kg (not specified) PNEC-wastewater treatment plant 1 mg/kg (not specified) PNEC-solid Cierce treatment plant 1 mg/kg (not specified) PNEC-solid Cierce treatment plant 1 mg/kg (not specified) PNEC-solid Cierce treatment plant 1 mg/kg (not specified) Parameter: isocyanate-derived diamine CAS No. Designation of material % Type Value Unit 101-68-8 diphenylmethane-4,4'-diisocyanate AGW (Germany) Long-term value: 0.05 mg/m³ 1, =2-(1),DFG, 11, 12, H, Sah, Y WEL (Great Britain) Short-term value: 0.05 mg/m³ 2, Cas no - Ceiling limit: 0.2 mg/m³, 0.02 ppm REL (USA) Cong-term value: 0.05 mg/m³, 0.005 ppm 2, Ceiling limit: 0.2 mg/m³, 0.02 ppm REL (USA) Long-term value: 0.05 mg/m³, 0.005 ppm 2, Ceiling limit: 0.2 mg/m³, 0.02 ppm 10-mi 10		limit values that require monitoring at the workplace:	
Inhalative DNEL short term 0.1 mg/m3 (human being) DNEL long term 0.05 mg/m3 (human being) PNECs 101-68-8 diphenylmethane-4,4'-diisocyanate PNEC-Freshwater 0.1 mg/l (not specified) PNEC-Freshwater 0.1 mg/l (not specified) PNEC-Freshwater sediment 1 mg/l (not specified) PNEC-Freshwater sediment 1 mg/l (not specified) PNEC-reselwater sediment 1 mg/l (not specified) PNEC-reselwater sediment 1 mg/l (not specified) PNEC-wastewater treatment plant 1 mg/l (not specified) PNEC-avastewater treatment plant 1 mg/l (not specified) PNEC-methylic treatment plant 1 mg/l (not specified) PNEC-methylic treatment plant 1 mg/l (not specified) PNEC-methylic treatment plant 1 mg/l (not specified) PNEC-avastewater treatment plant 1 mg/l (not specified) PNEC-wastewater treatment plant 1 mg/l (not specified) PNEC-avastewater treatment plant p	101-68-8 dipheny	Imethane-4,4'-diisocyanate	
DNEL long term 0.05 mg/m3 (human being) PNECs 101-68-3 diphenylmethane-4,4'-diisocyanate PNEC-seawater 0.1 mg/l (not specified) PNEC-seawater 0.1 mg/ls (not specified) PNEC-seawater 1 mg/kg (not specified) PNEC-soil 1 mg/kg (not specified) PNEC-soil 1 mg/kg (not specified) PNEC-soil 1 mg/kg (not specified) PNEC-vastewater treatment plant 1 mg/l (not specified) PNEC-wastewater treatment plant 1 mg/l (not specified) PNEC-wastewater treatment plant 1 mg/kg (not specified) Probennalmezei(punkt: Expositionsende bzw. Schichtende Parameter: 4.4'-Diaminoidiphenylmethan BMGV (Great Britain) 1 µmod creatinine/mool Medium: urine Sampling time: At the end of the period od exposure Parameter: isocyanate-derived diamine Parameter: isocyanate-derived diamine Parameter: isocyanate-derived diamine PARAMENT 1.2 H, Sah, Y WEL (Great Britain) Short-term value: 0.07 mg/m³ Long-term value: 0.02 mg/m³, 0.005 ppm Ceiling limit: 0.2 mg/m³, 0.005 ppm Ceiling limit: 0.2 mg/m³, 0.005 ppm Ceiling limit: 0.2 mg/m³, 0.005 ppm TUV (USA) Long-term value: 0.05 mg/m³, 0.005 ppm TUV (USA) Long-term value: 0.05 mg/m³, 0.005 ppm Tel (USA) Long-term value: 0.05 mg/m³, 0.005 ppm Ceiling limit: 0.2 mg/m³, 0.005 ppm Tel (USA) Long-term value: 0.05 mg/m³, 0.005 ppm T	Dermal DNEL s	hort term 50 mg/kg (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-preshwater sediment       1 mg/kg (not specified)         PNEC-soil       1 mg/kg (not specified)         PNEC-soil       1 mg/kg (not specified)         PNEC-wastewater treatment plant 1 mg/l (not specified)         Ingredients with biological limit values:         101-68-8 diphenylmethane-4,4'-diisocyanate         BGW (Germany)       10 µg/g Kreatinin         Untersuchungsmaterial: Urin         Probennahmezeitpunkt: Expositionsende bzw. Schichtende         Parameter: 4.4'-Diaminodiphenylmethan         BMGV (Gereat Britain) 1 µmol creatinine/mol         Medium: urine         Sampling time: At the end of the period od exposure         Parameter: isocyanate-derived diamine         204-68-8 diphenylmethane-4,4'-diisocyanate         AGW (Germany)       Long-term value: 0.05 E mg/m³         1:=2=(1):DFG, 11, 12, H, Sah, Y         WEL (Great Britain) Short-term value: 0.02 mg/m³         Long-term value: 0.02 mg/m³         Sen; as -NCO         PEL (USA)       Long-term value: 0.05 mg/m³, 0.005 ppm         Ceiling limit: 0.2 mg/m³, 0.005 ppm         Ceiling limit: 0.2 mg/m³, 0.005	Inhalative DNEL s	hort term 0.1 mg/m3 (human being)	
101-68-8 diphenylmethane-4,4'-diisocyanate         PNEC- Freshwater       1 mg/l (not specified)         PNEC-seawater       0.1 mg/l (not specified)         PNEC-secowater       1 mg/kg (not specified)         PNEC-soid       1 mg/kg (not specified)         PNEC-soid       1 mg/kg (not specified)         PNEC-wastewater treatment plant 1 mg/l (not specified)         PNEC-seawater treatment plant treatment plant 1 mg/l (not specified)         PNEC-seawater treatment plant 1 mg/l (not specified)         PNEC-seawater treatment plant 1 mg/l mol creatinine		ong term  0.05 mg/m3 (human being)	
PNEC- Freshwater       1 mg/l (not specified)         PNEC-seawater       0.1 mg/l (not specified)         PNEC-periodic release       10 mg/l (not specified)         PNEC-reshwater sediment       1 mg/kg (not specified)         PNEC-soil       1 mg/kg (not specified)         PNEC-wastewater treatment plant 1 mg/l (not specified)         PNEC-wastewater treatment plant 1 mg/l (not specified)         Ingredients with biological limit values:         101-68-8 diphenylmethane-4,4'-diisocyanate         BGW (Germany)       10 µg/g Kreatinin         Untersuchungsmaterial: Urin         Probennahmezeitpunkt: Expositionsende bzw. Schichtende         Parameter: 4.4'-Diaminodiphenylmethan         BMGV (Great Britain)       1 µmol creatinine/mol         Medium: urine       Sampling time: At the end of the period od exposure         Parameter: isocyanate-derived diamine       *         101-68-8 diphenylmethane-4,4'-diisocyanate         AGW (Germany)       Long-term value: 0.05 E mg/m³         1:=2(!):DFG, 11, 12, H, Sah, Y         WEL (Great Britain)       Short-term value: 0.02 mg/m³         Long-term value: 0.02 mg/m³         Sen; as >NCO         PEL (USA)       Long-term value: 0.05 mg/m³, 0.005 ppm         Ceiling limit: 0.2 mg/m³, 0.02* ppm         *10-min <td>PNECs</td> <td></td> <td></td>	PNECs		
PNEC- Freshwater       1 mg/l (not specified)         PNEC-seawater       0.1 mg/l (not specified)         PNEC-periodic release       10 mg/l (not specified)         PNEC-rreshwater sediment       1 mg/kg (not specified)         PNEC-soil       1 mg/kg (not specified)         PNEC-wastewater treatment plant 1 mg/l (not specified)         PNEC-wastewater treatment plant 1 mg/l (not specified)         Ingredients with biological limit values:         101-66-8 diphenylmetnane-4,4'-diisocyanate         BGW (Germany)       10 µg/g Kreatinin         Untersuchungsmaterial: Urin         Probennahmezeitpunkt: Expositionsende bzw. Schichtende         Parameter: 4.4'-Diaminodiphenylmethan         BMGV (Great Britain) 1 µmol creatinine/mol         Medium: urine         Sampling time: At the end of the period od exposure         Parameter: isocyanate-derived diamine         *       CAS No. Designation of material         %       Type Value Unit         101-68-8 diphenylmethane-4,4'-diisocyanate         AGW (Germany)       Long-term value: 0.05 mg/m³         Long-term value: 0.02 mg/m³         Long-term value: 0.02 mg/m³         Long-term value: 0.05 mg/m³, 0.02 ppm         Celling limit: 0.2 mg/m³, 0.02 ppm         *10-min         TLV (USA)	101-68-8 dipheny	Imethane-4.4'-diisocyanate	
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-wastewater treatment plant 1 mg/l (not specified)         PNEC-wastewater treatment plant 1 mg/l (not specified)         Ingredients with biological limit values:         101-68-8 diphenylimethane-4,4'-diisocyanate         BGW (Germany)       10 µg/g Kreatinin Untersuchungsmaterial: Urin Probennahmezeitpunkt: Expositionsende bzw. Schichtende Parameter: 4.4'-Diaminodiphenylmethan         BMGV (Great Britain)       1 µmol creatinine/mol Medium: urine Sampling time: At the end of the period od exposure Parameter: isocyanate-derived diamine         101-68-8 diphenylimethane-4,4'-diisocyanate         AGW (Germany)       Long-term value: 0.05 mg/m³ 1;=2=(1):DFG, 11, 12, H, Sah, Y         WEL (Great Britain)       Short-term value: 0.07 mg/m³ 1;=2=(1):DFG, 11, 12, H, Sah, Y         WEL (Great Britain)       Short-term value: 0.05 mg/m³ 1;=2=(1):DFG, 11, 22 mg/m³, 0.02 ppm         REL (USA)       Ceiling limit: 0.2 mg/m³, 0.02 ppm         REL (USA)       Long-term value: 0.05 mg/m³, 0.005 ppm Ceiling limit: 0.2* mg/m³, 0.02* ppm         TLV (USA)       Long-term value: 0.05 mg/m³, 0.005 ppm Ceiling limit: 0.2* mg/m³, 0.02* ppm         *10-min       *10-min         TLV (USA)       Long-term value: 0.051 mg/m³, 0.005 ppm Ceiling limit: 0.2* mg/m³, 0.02* ppm			
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 plant 1 mg/l (not specified)         Ingredients with biological limit values:         101-68-8 diphenylmethane-4,4'-diisocyanate         BGW (Germany)       10 µg/g Kreatinin Untersuchungsmaterial: Urin Probennahmezeitpunkt: Expositionsende bzw. Schichtende Parameter: 4.4'-Diaminodiphenylmethan         BMGV (Great Britain) 1 µmol creatinine/mol Medium: urine Sampling time: At the end of the period od exposure Parameter: isocyanate-derived diamine         CAS No. Designation of material % Type Value Unit         101-68-8 diphenylmethane-4,4'-diisocyanate AGW (Germany)         AGW (Germany)       Long-term value: 0.05 E mg/m³ 1;=2=(1),DFG, 11, 12, H, Sah, Y         WEL (Great Britain) Short-term value: 0.07 mg/m³ Long-term value: 0.02 mg/m³ Sen; as -NCO         PEL (USA)       Ceiling limit: 0.2 mg/m³, 0.002 ppm         REL (USA)       Long-term value: 0.05 mg/m³, 0.005 ppm Ceiling limit: 0.2* mg/m³, 0.02* ppm *10-min         TLV (USA)       Long-term value: 0.051 mg/m³, 0.005 ppm Ceiling limit: 0.2* mg/m³, 0.02* ppm *10-min         St. Exposure controls limit the exposure to: 8 hours additional to professional application with multiple and/or significant contact limit the exposure to 4 hours         Appropriate engineering controls No further data; see item 7.	PNEC-seawater		
PNEC-soil       1 mg/kg (not specified)         PNEC-wastewater treatment plant 1 mg/l (not specified)         Ingredients with biological limit values:         101-68-8 diphenylmethane-4,4'-diisocyanate         BGW (Germany)       10 µg/g Kreatinin Untersuchungsmaterial: Urin Probennahmezeitpunkt: Expositionsende bzw. Schichtende Parameter: 4.4'-Diaminodiphenylmethan         BMGV (Great Britain)       1 µmol creatinine/mol Medium: urine Sampling time: At the end of the period od exposure Parameter: isocyanate-derived diamine         CAS No. Designation of material       % Type       Value Unit         101-68-8 diphenylmethane-4,4'-diisocyanate       AGW (Germany)       Long-term value: 0.05 E mg/m³ 1;=2=(1);DFG, 11, 12, H, Sah, Y         WEL (Great Britain) Short-term value: 0.02 mg/m³ Long-term value: 0.02 mg/m³ Sen; as -NCO       Sen; as -NCO         PEL (USA)       Ceiling limit: 0.2 mg/m³, 0.02 ppm         REL (USA)       Long-term value: 0.051 mg/m³, 0.005 ppm Ceiling limit: 0.2 mg/m³, 0.02* ppm *10-min         TLV (USA)       Long-term value: 0.051 mg/m³, 0.005 ppm         8.2. Exposure contros       Imit the exposure to: 8 hours additional to professional application with multiple and/or significant contact limit the exposure to 4 hours         Appropriate engineering controls No further data; see item 7.	PNEC-periodic rel	,	
PNEC-wastewater treatment plant 1 mg/l (not specified) Ingredients with biological limit values: 101-68-8 diphenylmethane-4,4'-diisocyanate BGW (Germany) 10 µg/g Kreatinin Untersuchungsmaterial: Urin Probennahmezeitpunkt: Expositionsende bzw. Schichtende Parameter: 4.4'-Diaminodiphenylmethan BMGV (Great Britain) 1 µmol creatinine/mol Medium: urine Sampling time: At the end of the period od exposure Parameter: isocyanate-derived diamine CAS No. Designation of material % Type Value Unit 101-68-8 diphenylmethane-4,4'-diisocyanate AGW (Germany) Long-term value: 0.05 E mg/m³ 1;=2=(1);DFG, 11, 12, H, Sah, Y WEL (Great Britain) Short-term value: 0.05 E mg/m³ Long-term value: 0.02 mg/m³ Sen; as -NCO PEL (USA) Ceiling limit: 0.2 mg/m³, 0.02 ppm REL (USA) Cong-term value: 0.05 mg/m³, 0.005 ppm Ceiling limit: 0.2* mg/m³, 0.02* ppm *10-min TLV (USA) Long-term value: 0.051 mg/m³, 0.005 ppm 68.2. Exposure controls limit the exposure to: 8 hours additional to professional application with multiple and/or significant contact limit the exposure to 4 hours Appropriate engineering controls No further data; see item 7.	PNEC-Freshwater	sediment 1 mg/kg (not specified)	
Ingredients with biological limit values:         101-68-8 diphenylmethane-4,4'-diisocyanate         BGW (Germany)       10 µg/g Kreatinin Untersuchungsmaterial: Urin Probennahmezeitpunkt: Expositionsende bzw. Schichtende Parameter: 4.4'-Diaminodiphenylmethan         BMGV (Great Britain) 1 µmol creatinine/mol Medium: urine Sampling time: At the end of the period od exposure Parameter: isocyanate-derived diamine         CAS No. Designation of material % Type Value Unit         101-68-8 diphenylmethane-4,4'-diisocyanate         AGW (Germany)       Long-term value: 0.05 E mg/m³ 1;=2=(1);DFG, 11, 12, H, Sah, Y         WEL (Great Britain) Short-term value: 0.05 E mg/m³ Long-term value: 0.02 mg/m³ Long-term value: 0.02 mg/m³ Long-term value: 0.02 mg/m³ Celling limit: 0.2 mg/m³, 0.002 ppm         REL (USA)       Celling limit: 0.2 mg/m³, 0.02 ppm *10-min         TLV (USA)       Long-term value: 0.051 mg/m³, 0.005 ppm *10-min         St. Exposure controls       *10-min         Iimit the exposure to: 8 hours additional to professional application with multiple and/or significant contact limit the exposure to 4 hours         Appropriate engineering controls No further data; see item 7.	PNEC-soil	1 mg/kg (not specified)	
101-68-8 diphenylmethane 4,4'-diisocyanate         BGW (Germany)       10 µg/g Kreatinin Untersuchungsmaterial: Urin Probennahmezeitpunkt: Expositionsende bzw. Schichtende Parameter: 4.4'-Diaminodiphenylmethan         BMGV (Great Britain)       1 µmol creatinine/mol Medium: urine Sampling time: At the end of the period od exposure Parameter: isocyanate-derived diamine         CAS No. Designation of material       % Type       Value Unit         101-68-8 diphenylmethane-4,4'-diisocyanate       AGW (Germany)       Long-term value: 0.05 E mg/m³ 1;=2=(1);DFG, 11, 12, H, Sah, Y         WEL (Great Britain)       Short-term value: 0.07 mg/m³ Long-term value: 0.02 mg/m³ Sen; as -NCO       Sen; as -NCO         PEL (USA)       Ceiling limit: 0.2 mg/m³, 0.02 ppm REL (USA)       Long-term value: 0.05 mg/m³, 0.005 ppm Ceiling limit: 0.2 mg/m³, 0.005 ppm *10-min         TLV (USA)       Long-term value: 0.051 mg/m³, 0.005 ppm *10-min       *10-min         St. Exposure controls       Sapplication with multiple and/or significant contact limit the exposure to: 8 hours additional to professional application with multiple and/or significant contact limit the exposure to 4 hours         Appropriate engineering controls No further data; see item 7.	PNEC-wastewater	treatment plant 1 mg/l (not specified)	
BGW (Germany)       10 µg/g Kreatinin Untersuchungsmaterial: Urin Probennahmezeitpunkt: Expositionsende bzw. Schichtende Parameter: 4.4 - Diaminodiphenylmethan         BMGV (Great Britain)       1 µmol creatinine/mol Medium: urine Sampling time: At the end of the period od exposure Parameter: isocyanate-derived diamine         CAS No. Designation of material       % Type         Value Unit         101-68-8 diphenylmethane-4,4'-diisocyanate         AGW (Germany)       Long-term value: 0.05 E mg/m³ 1;=2=(1);DFG, 11, 12, H, Sah, Y         WEL (Great Britain)       Short-term value: 0.07 mg/m³ Long-term value: 0.07 mg/m³ Sen; as -NCO         PEL (USA)       Ceiling limit: 0.2 mg/m³, 0.02 ppm         REL (USA)       Long-term value: 0.05 mg/m³, 0.005 ppm Ceiling limit: 0.2* mg/m³, 0.02* ppm *10-min         TLV (USA)       Long-term value: 0.05 mg/m³, 0.005 ppm ceiling limit: 0.2* mg/m³, 0.02* ppm *10-min         82. Exposure controls       Iimit the exposure to: 8 hours additional to professional application with multiple and/or significant contact limit the exposure to 4 hours         Appropriate engineering controls No further data; see item 7.	Ingredients with	biological limit values:	
BGW (Germany)       10 µg/g Kreatinin Untersuchungsmaterial: Urin Probennahmezeitpunkt: Expositionsende bzw. Schichtende Parameter: 4.4 - Diaminodiphenylmethan         BMGV (Great Britain)       1 µmol creatinine/mol Medium: urine Sampling time: At the end of the period od exposure Parameter: isocyanate-derived diamine         CAS No. Designation of material       % Type         Value Unit         101-68-8 diphenylmethane-4,4'-diisocyanate         AGW (Germany)       Long-term value: 0.05 E mg/m³ 1;=2=(1);DFG, 11, 12, H, Sah, Y         WEL (Great Britain)       Short-term value: 0.07 mg/m³ Long-term value: 0.07 mg/m³ Sen; as -NCO         PEL (USA)       Ceiling limit: 0.2 mg/m³, 0.02 ppm         REL (USA)       Long-term value: 0.05 mg/m³, 0.005 ppm Ceiling limit: 0.2* mg/m³, 0.02* ppm *10-min         TLV (USA)       Long-term value: 0.05 mg/m³, 0.005 ppm ceiling limit: 0.2* mg/m³, 0.02* ppm *10-min         82. Exposure controls       Iimit the exposure to: 8 hours additional to professional application with multiple and/or significant contact limit the exposure to 4 hours         Appropriate engineering controls No further data; see item 7.	101-68-8 dinhenv	Imethane-4 4'-diisocvanate	
Untersuchungsmaterial: Urin Probennahmezeitpunkt: Expositionsende bzw. Schichtende Parameter: 4.4*-Diaminodiphenylmethan         BMGV (Great Britain) 1 µmol creatinine/mol Medium: urine Sampling time: At the end of the period od exposure Parameter: isocyanate-derived diamine         CAS No. Designation of material % Type Value Unit         101-68-8 diphenylmethane-4,4*-diisocyanate         AGW (Germany)       Long-term value: 0.05 E mg/m³ 1;=2=(1);DFG, 11, 12, H, Sah, Y         WEL (Great Britain)       Short-term value: 0.07 mg/m³ Long-term value: 0.02 mg/m³ Sen; as -NCO         PEL (USA)       Ceiling limit: 0.2 mg/m³, 0.02 ppm         REL (USA)       Long-term value: 0.05 mg/m³, 0.005 ppm Ceiling limit: 0.2* mg/m³, 0.02* ppm *10-min         TLV (USA)       Long-term value: 0.051 mg/m³, 0.005 ppm         82. Exposure controls       Immit the exposure to: 8 hours additional to professional application with multiple and/or significant contact limit the exposure to 4 hours         Appropriate engineering controls No further data; see item 7.			
BMGV (Great Britain) 1 µmol creatinine/mol Medium: urine Sampling time: At the end of the period od exposure Parameter: isocyanate-derived diamine         CAS No. Designation of material       % Type Value Unit         101-68-8 diphenylmethane-4,4'-diisocyanate         AGW (Germany)       Long-term value: 0.05 E mg/m³ 1;=2=(1);DFG, 11, 12, H, Sah, Y         WEL (Great Britain) Short-term value: 0.07 mg/m³ Long-term value: 0.02 mg/m³ Sen; as -NCO         PEL (USA)       Ceiling limit: 0.2 mg/m³, 0.02 ppm REL (USA)         Ceiling limit: 0.2 mg/m³, 0.02 ppm r10-min         TLV (USA)       Long-term value: 0.05 mg/m³, 0.005 ppm ceiling limit: 0.2* mg/m³, 0.02* ppm *10-min         TLV (USA)       Long-term value: 0.051 mg/m³, 0.005 ppm ceiling limit: 0.2* mg/m³, 0.02* ppm         *ADB ADD ADD ADD ADD ADD ADD ADD ADD ADD		Untersuchungsmaterial: Urin Probennahmezeitpunkt: Expositionsende bzw. Schichtende	
101-68-8 diphenylmethane-4,4'-diisocyanate         AGW (Germany)       Long-term value: 0.05 E mg/m³ 1;=2=(1);DFG, 11, 12, H, Sah, Y         WEL (Great Britain)       Short-term value: 0.07 mg/m³ Long-term value: 0.02 mg/m³ Sen; as -NCO         PEL (USA)       Ceiling limit: 0.2 mg/m³, 0.02 ppm         REL (USA)       Long-term value: 0.05 mg/m³, 0.005 ppm Ceiling limit: 0.2* mg/m³, 0.02* ppm *10-min         TLV (USA)       Long-term value: 0.051 mg/m³, 0.005 ppm         8.2. Exposure controls       Iimit the exposure to: 8 hours additional to professional application with multiple and/or significant contact limit the exposure to 4 hours         Appropriate engineering controls No further data; see item 7.	BMGV (Great Brita	ain) 1 µmol creatinine/mol Medium: urine Sampling time: At the end of the period od exposure	
AGW (Germany)       Long-term value: 0.05 E mg/m³ 1;=2=(1);DFG, 11, 12, H, Sah, Y         WEL (Great Britain)       Short-term value: 0.07 mg/m³ Long-term value: 0.02 mg/m³ Sen; as -NCO         PEL (USA)       Ceiling limit: 0.2 mg/m³, 0.02 ppm         REL (USA)       Long-term value: 0.05 mg/m³, 0.005 ppm Ceiling limit: 0.2* mg/m³, 0.02* ppm *10-min         TLV (USA)       Long-term value: 0.051 mg/m³, 0.005 ppm <b>8.2. Exposure controls</b> limit the exposure to: 8 hours additional to professional application with multiple and/or significant contact limit the exposure to 4 hours <b>Agpropriate engineering controls</b> No further data; see item 7.	CAS No. Desig	nation of material % Type Value Unit	
AGW (Germany)       Long-term value: 0.05 E mg/m³ 1;=2=(1);DFG, 11, 12, H, Sah, Y         WEL (Great Britain)       Short-term value: 0.07 mg/m³ Long-term value: 0.02 mg/m³ Sen; as -NCO         PEL (USA)       Ceiling limit: 0.2 mg/m³, 0.02 ppm         REL (USA)       Long-term value: 0.05 mg/m³, 0.005 ppm Ceiling limit: 0.2* mg/m³, 0.02* ppm *10-min         TLV (USA)       Long-term value: 0.051 mg/m³, 0.005 ppm <b>8.2. Exposure controls</b> limit the exposure to: 8 hours additional to professional application with multiple and/or significant contact limit the exposure to 4 hours <b>4.ppropriate engineering controls</b> No further data; see item 7.	101-68-8 diphenv	Imethane-4.4'-diisocvanate	
Long-term value: 0.02 mg/m³ Sen; as -NCOPEL (USA)Ceiling limit: 0.2 mg/m³, 0.02 ppm REL (USA)REL (USA)Long-term value: 0.05 mg/m³, 0.005 ppm Ceiling limit: 0.2* mg/m³, 0.02* ppm *10-minTLV (USA)Long-term value: 0.051 mg/m³, 0.005 ppm <b>8.2. Exposure controls</b> limit the exposure to: 8 hours additional to professional application with multiple and/or significant contact limit the exposure to 4 hours <b>Appropriate engineering controls</b> No further data; see item 7.		Long-term value: 0.05 E mg/m³	
PEL (USA)Ceiling limit: 0.2 mg/m³, 0.02 ppmREL (USA)Long-term value: 0.05 mg/m³, 0.005 ppm Ceiling limit: 0.2* mg/m³, 0.02* ppm *10-minTLV (USA)Long-term value: 0.051 mg/m³, 0.005 ppm <b>8.2. Exposure controls</b> limit the exposure to: 8 hours additional to professional application with multiple and/or significant contact limit the exposure to 4 hours <b>Appropriate engineering controls</b> No further data; see item 7.	WEL (Great Britai	Long-term value: 0.02 mg/m <sup>3</sup>	
REL (USA)       Long-term value: 0.05 mg/m³, 0.005 ppm Ceiling limit: 0.2* mg/m³, 0.02* ppm *10-min         TLV (USA)       Long-term value: 0.051 mg/m³, 0.005 ppm         • 8.2. Exposure controls       limit the exposure to: 8 hours         additional to professional application with multiple and/or significant contact limit the exposure to 4 hours         • Appropriate engineering controls No further data; see item 7.	PEL (USA)		
TLV (USA)       Long-term value: 0.051 mg/m³, 0.005 ppm         • 8.2. Exposure controls         limit the exposure to:         8 hours         additional to professional application with multiple and/or significant contact         limit the exposure to 4 hours         • Appropriate engineering controls No further data; see item 7.	· · ·	Long-term value: 0.05 mg/m³, 0.005 ppm Ceiling limit: 0.2* mg/m³, 0.02* ppm	
limit the exposure to: 8 hours additional to professional application with multiple and/or significant contact limit the exposure to 4 hours <b>Appropriate engineering controls</b> No further data; see item 7.	TLV (USA)		
	limit the exposure 8 hours additional to profe- limit the exposure	to: ssional application with multiple and/or significant contact to 4 hours	
		-	
	P. 010011	<b>re and hygienic measures:</b> Do not inhale gases / fumes / aerosols.	(Contd. on page

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	(Contd. of page
Respiratory protection:	<b></b>
Use suitable respiratory protective device in case of in Filter A/P2 (EN 14387)	
At spray application respiratory protection must be we	prn.
Hand protection	
Protective gloves	
Heat resistant gloves	
Material of gloves Leather gloves	
Eye/face protection Safety glasses Body protection: Protective work clothing	
Thermal hazards Risk of burns during thermal proce	ssing.
SECTION 9: Physical and chemical prope	rties
9.1. Information on basic physical and chemical p	roperties
General Information	
Physical state	Solid
Colour:	According to product specification
Odour: Odour threshold:	Light Not determined.
Melting point/freezing point:	Undetermined.
Boiling point or initial boiling point and boiling	chaolonninou.
range	Undetermined.
Flammability	Not determined.
Lower and upper explosion limit	
Lower:	Not determined.
Upper:	Not determined.
Flash point:	Not applicable.
Auto-ignition temperature:	Product is not selfigniting.
Decomposition temperature: pH	Not determined. Not applicable.
Viscosity:	At room temperature: not applicable
Kinematic viscosity	Not applicable.
Dynamic:	Not applicable.
Solubility	
water:	Insoluble.
Partition coefficient n-octanol/water (log value)	Not determined.
Vapour pressure:	Not applicable.
Density and/or relative density Density at 20 °C:	ca. 1.1 g/cm³
Relative density	Not determined.
Vapour density	Not applicable.
Particle characteristics	See item 3.
9.2. Other information	
Appearance:	
Form:	Solid
Important information on protection of health and	
environment, and on safety.	
Ignition temperature:	>300 °C
Explosive properties: Change in condition	Product does not present an explosion hazard.
Evaporation rate	Not applicable.
Information with regard to physical hazard classe	
Explosives	S Void
Flammable gases	Void
Aerosols	Void

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		(Contd. of page 5)
· Oxidising gases	Void	
· Gases under pressure	Void	
Flammable liquids	Void	
Flammable solids	Void	
Self-reactive substances and mixtures	Void	
Pyrophoric liquids	Void	
Pyrophoric solids	Void	
Self-heating substances and mixtures	Void	
Substances and mixtures, which emit flamm	able	
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.
- **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 (rat) (Calculation (ATE))

Note:

diphenylmethane-diisocyanate:

The test atmosphere generated in the animal study is not representative of workplace environments, how the substance is placed on the market, and how it can reasonably be expected to be used. Therefore the test result cannot be directly applied for the purpose of assessing hazard. Based on expert judgment and the weight of the evidence, a modified classification for acute inhalation toxicity is justified.

· 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

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.

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### Trade name / Article-No: KLEIBERIT 712.6 (Contd. of page 6) • **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. 12.5. Results of PBT and vPvB assessment · PBT: Not applicable. · vPvB: Not applicable. 12.6 Endocrine disrupting properties The product does not contain substances with endocrine disrupting properties. 12.6. Other adverse effects · Behaviour in sewage processing plants: Remark: At correct sewage disposal in small quantities to biological sewage plants failures of the activated sludge are not expected. · Additional ecological information: · General notes: Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water SECTION 13: Disposal considerations · 13.1. Waste treatment methods Recommendation Must not be disposed together with household garbage. Do not allow product to reach sewage system. · European waste catalogue 08 04 09\*: waste adhesives and sealants containing organic solvents or other dangerous substances Adhesive reacted completely: 08 04 10: waste adhesives and sealants other than those mentioned in 08 04 09 · Uncleaned packaging: Recommendation: Non contaminated packagings may be recycled. Empty contaminated packagings thoroughly. Disposal 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 (Contd. on page 8)

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I O E E O E F L L F V A S E F S O S	DOT: US Department of Transportation ATA: 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 (REACH) PNEC: Predicted No-Effect Concentration (REACH) .C50: Lethal concentration, 50 percent D50: Lethal concentration, 50 percent PBT: Persistent, Bioaccumulative and Toxic /PVB: 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 1 Skin Sens. 1: Respiratory sensitisation – Category 1 Carc. 2: Carcinogenicity – Category 2 STOT SE 3: Specific target organ toxicity (single exposure) – Category 3	(Contd. of page 8)	
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