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

Printing date 19.07.2022

Version-No. 2 (replaces version 1)

Revision: 19.07.2022

1.1. Product identifier	
Trade name / Article-No: KLEIBERIT <b>716.4</b>	
UFI: Q3YQ-20GM-C00J-7FT7	
1.2. Relevant identified uses of the substance / mixture or uses advised against	
For professionel use only	
Application of the substance / the mixture Adhesives	
1.3. Details of the supplier of the safety data sheet	
Manufacturer/Supplier:	
KLEBCHEMIE	
M.G. Becker GmbH & Co. KG	
Max-Becker-Str. 4	
D - 76356 Weingarten / Baden Germany	
Further information obtainable from:	
phone: +49 (0) 7244 62-0	
FAX: +49 (0) 7244 700-0	
E-Mail: hse@kleiberit.com	
1.4. Emergency telephone number:	
+44 1235 239670 European regional number (European languages)	
112 Emergency telephone number for Malta	
543 22 22 Icelandic University Hospital	
SECTION 2: Hazards identification	
2.1. Classification of the substance or mixture	
Cleasification according to Degulation (EC) No 1979/2009 CUC/CLD	
Classification according to Regulation (EC) No 1272/2008 - GHS/CLP	
Resp. Sens. 1 H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled	
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<ul> <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>	
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### Trade name / Article-No: KLEIBERIT 716.4 (Contd. of page 1) · Additional information: Contains isocyanates. May produce an allergic reaction. As from 24 August 2023 adequate training is required before industrial or professional use. · Information concerning particular hazards for human and environment: - Persons already sensitised to diisocyanates may develop allergic reactions when using this product. - Persons suffering from asthma, eczema or skin problems should avoid contact, including dermal contact, with this product. - This product should not be used under conditions of poor ventilation unless a protective mask with an appropriate gas filter (i.e. type A1 according to standard EN 14387) is used. 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: Identification / Classification GHS-CLP **Registry-No's** % CAS: 101-68-8 diphenylmethane-4,4'-diisocyanate ≥1-<2.5% 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: $C \ge 5 \%$ Eye Irrit. 2; H319: $C \ge 5 \%$ Resp. Sens. 1; H334: C ≥ 0.1 % STOT SE 3: 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 • 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: After contact with the molten product, cool rapidly with cold water. Treat affected skin with cotton wool or cellulose. Then wash and rinse thoroughly with water and a mild cleaning agent. Immediately wash with water and soap and rinse thoroughly. If skin irritation continues, consult a doctor. · After eve contact: Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor. · After swallowing: Call for a doctor immediately. (Contd. on page 3)

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<ul> <li>4.2. Most important symptoms and effects, both acute and delayed</li> </ul>	
Asthma attacks	
Allergic reactions	
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	
• <b>Protective equipment:</b> 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	
Appropriate regular employee training.	
Handle the substance preferably in closed system	
Enclosure or extractor facilities are required.	
Ensure good ventilation. This can be achieved by using a local exhaustion or general exhaust s	system. If these
measures are insufficient to keep the vapour concentration below the workplace limit, wear an	
respiratory protective device.	1
Not less than 3-5 air exchanges per hour	
Contact with skin and inhalation of aerosols/ vapours of the preparation should be avoided.	
Spraying: in vented cabin with laminar air flow	
Wear protective gloves/protective clothing/eye protection/face protection.	
Use only in well ventilated areas.	
Prevent formation of dust.	
Wear suitable respiratory protective device when decanting larger quantities without extractor fa	acilities.
Avoid contact with skin and eyes.	
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(Contd. of page 3) 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.
- · 7.3. Specific end use(s) No further relevant information available.

### **SECTION 8: Exposure controls/personal protection**

#### · 8.1. Control parameters

- Ingredients with limit values that require monitoring at the workplace:
- DNELs

### 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)

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-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	t 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

### CAS No. Designation of material % Type Value Unit

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

AGW (Germany) Long-term value: 0.05 E mg/m<sup>3</sup> 1;=2=(I);DFG, 11, 12, H, Sah, Y

### 8.2. Exposure controls

limit the exposure to: 8 hours



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additional to professional application with multiple a	nd/or significant contact	
limit the exposure to 4 hours	5	
· Appropriate engineering controls No further data	; see item 7.	
Individual protection measures, such as person	al protoctivo oquinmont	
General protective and hygienic measures:	al protective equipment	
The usual precautionary measures are to be adhered	ed to when handling chemicals	
· Respiratory protection:	sa to when handling chemicals.	
Use suitable respiratory protective device in case of	insufficient ventilation:	
Filter A/P2 (EN 14387)		
At spray application respiratory protection must be v	worn.	
<ul> <li>Hand protection</li> </ul>		
Protective gloves		
Heat resistant gloves		
• Material of gloves		
A Nitrile rubber - NBR: AlphaTec® (> 0,4 mm)		
Leather gloves • <b>Eye/face protection</b> Safety glasses		
Body protection: Protective work clothing		
• Thermal hazards Risk of burns during thermal proc	ressing	
	second.	
SECTION 9: Physical and chemical prop	ortios	
9.1. Information on basic physical and chemical	properties	
General Information	Solid	
· Physical state · Colour:	According to product specification	
· Odour:	Light	
· Odour threshold:	Not determined.	
• Melting point/freezing point:	Undetermined.	
· Boiling point or initial boiling point and boiling		
range	Undetermined.	
· Flammability	Not determined.	
• Lower and upper explosion limit		
· Lower:	Not determined.	
· Upper:	Not determined.	
· Flash point:	>200 °C	
Ignition temperature:	>300 °C	
Decomposition temperature:	Not determined.	
· pH	Not applicable.	
Viscosity:	At room temperature: not applicable	
· Kinematic viscosity	Not applicable.	
· Dynamic: · Solubility	Not applicable.	
· 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.	
· •		(Contd. on page 6)





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#### Trade name / Article-No: KLEIBERIT 716.4 (Contd. of page 5) Particle characteristics See item 3. 9.2. Other information · Appearance: Solid · Form: Important information on protection of health and environment, and on safety. Auto-ignition temperature: Product is not selfigniting. Explosive properties: Product does not present an explosion hazard. · Change in condition · Evaporation rate Not applicable. · Information with regard to physical hazard classes · 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 **Pyrophoric solids** Void Self-heating substances and mixtures Void · 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.
- **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.

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SECTIO	N 11: Toxicological i	nformation		
· 11.1. Info · Acute tox	rmation on hazard classe icity Based on available d alues relevant for classif	s as defined in Regula ata, the classification cri		
Oral Dermal		and polyether polyol t) (Calculation (ATE)) t) (Calculation (ATE))		
Oral Dermal Inhalative Note: Prepolyme diphenylm The test a substance result can weight of t Skin corr Serious e Respirato May cause May cause Germ cell Carcinog Reproduc STOT-sin STOT-rep Aspiratio 11.2 Infor		t) (84/449/EWG, B.1) bbit) (OECD 402) cified) (Calculation (ATE d polyether polyol: Inves e animal study is not rep and how it can reasonab ne purpose of assessing assification for acute inf available data, the class ed on available data, the class ing cancer. ailable data, the classific vailable data, the classific available data, the classific available data, the classific available data, the classific	tigations on a comparable presentative of workplace by be expected to be used g hazard. Based on exper- alation toxicity is justified. ification criteria are not me classification criteria are ies if inhaled. fication criteria are not met. ication criteria are not met. sification criteria are not met.	environments, how the d. Therefore the test t judgment and the
SECTIO 12.1. Tox Aquatic to		rmation		
LC <sub>50</sub> >1,00	<b>er consisting of (p) MDI</b> 00 mg / I / 96h (fish) 00 mg / I / 24h (water flea -			
LC <sub>50</sub> >1,00	<b>diphenylmethane-4,4'-dii</b> 00 mg / I / 96h (fish) 00 mg / I / 24h (water flea -	-		(Contd. on page



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### according to 1907/2006/EC, Article 31 Version-No. 2 (replaces version 1) Trade name / Article-No: KLEIBERIT 716.4 (Contd. of page 7) 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: Prepolymer consisting of (p) MDI and polyether polyol: Investigations on a comparable product 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 hazardous substances 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 14.4. Packing group

Void

Not applicable.

Not applicable.

· 14.5. Environmental hazards: · 14.6. Special precautions for user

· ADR, IMDG, IATA

 14.7. Maritime transport in bulk according to IMO instruments Not applicable.

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	Trade name / Article-No: KLEIBERIT <b>716.4</b>
۴	SECTION 15: Regulatory information

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

### · EU-Regulations

101-68-8 diphenylmethane-4,4'-diisocyanate: REACH, Annex XVII, No. 56, 74

- 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:** Restricted to professional users.

· 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.





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EUH204 Contains isocyanates. May produce an allergic reaction.	
Department issuing SDS: Safety & Environment	
Version number of previous version: 1	
Abbreviations and acronyms:	
ADDR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement	Concerning the
International Carriage of Dangerous Goods by Road)	concerning the
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 (REACH)	
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	