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

Printing date 30.08.2022

Version-No. 3 (replaces version 2)

Revision: 30.08.2022

SECTION 4. Identification of the substance/mixture and of the same	an underteking
SECTION 1: Identification of the substance/mixture and of the compa • 1.1. Product identifier	any/undertaking
Trade name / Article-No: KLEIBERIT 707.9.40	
 • UFI: 8QXF-T0P5-800U-HUYK • 1.2. Relevant identified uses of the substance / mixture or uses advised against 	
For professional users only.	
Application of the substance / the mixture Adhesives	
• 1.3. Details of the supplier of the safety data sheet	
· Manufacturer/Supplier:	
KLEIBERIT SE & 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	
Classification according to Regulation (EC) No 1272/2008 - GHS/CLP	
Resp. Sens. 1 H334 May cause allergy or asthma symptoms or breathing difficulties if inl	haled.
Skin Sens. 1 H317 May cause an allergic skin reaction.	
Carc. 2 H351 Suspected of causing cancer.	
2.2. Label elements	
Hazard pictograms	
GHS08	
· Signal word Danger	
· Hazard-determining components of labelling:	
diphenylmethane-4,4'-diisocyanate	
 Hazard statements H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled. 	
H334 May cause an allergic skin reaction.	
H351 Suspected of causing cancer.	
Precautionary statements D261 Avoid broothing venours	
P261 Avoid breathing vapours. P280 Wear protective gloves.	
P314 Get medical advice/attention if you feel unwell.	
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	roduce an allergic reaction. quate training is required before industrial or profess rticular hazards for human and environment:	(Contd. of page 1) ional use.
when using this product. - Persons suffering from astl contact, including dermal con- - This product should not be	used under conditions of poor ventilation h an appropriate gas filter (i.e. type A1 387) is used.	
SECTION 3: Composit	ion/information on ingredients	
· 3.1. Substances · Registry-No's Identification		
3.2 Mixtures	er polyol and diphenylmethane diisocyanate stances listed below with nonhazardous additions.	>95%
· Dangerous components:		
· Registry-No's	Identification / Classification GHS-CLP	%
CAS: 101-68-8 Reg.nr.: 01-2119457014-47-	diphenylmethane-4,4'-diisocyanate XXXX Resp. Sens. 1, H334; Carc. 2, H351; STOT RI Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H H317; STOT SE 3, H335, EUH204 Specific concentration limits: Skin Irrit. 2; H319 Eye Irrit. 2; H319 Resp. Sens. 1; H STOT SE 3; C ≥	319; Skin Sens. 1, 5: C ≥ 5 % :: C ≥ 5 % 334: C ≥ 0.1 %
· Additional information: Fo	the wording of the listed hazard phrases refer to sec	tion 16.
SECTION 4: First aid r	neasures	
• 4.1. Description of first aid • After inhalation: Supply fresh air and to be su	measures	

Take affected persons into fresh air and keep quiet. After skin contact:

In case of unconsciousness place patient stably in side position for transportation.

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.



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• 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

• 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** 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 system. If these measures are insufficient to keep the vapour concentration below the workplace limit, wear an adequate respiratory protective device.

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 facilities.



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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.
- · 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 <u>biological</u> 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/m³ 1;=2=(I);DFG, 11, 12, H, Sah, Y

8.2. Exposure controls

limit the exposure to:



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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.			
Individual protection measures, such as person	al protective equipment		
 General protective and hygienic measures: The usual precautionary measures are to be adhered 	ad to when handling chemicals		
· Respiratory protection:	ed to when handling chemicals.		
Use suitable respiratory protective device in case of	insufficient ventilation:		
Filter A (DIN EN 14 387)			
At spray application respiratory protection must be v	vorn.		
Hand protection			
Protective gloves Heat resistant gloves			
· Material of gloves			
A Nitrile rubber - NBR: AlphaTec® (> 0,4 mm)			
Leather gloves			
Eye/face protection Safety glasses			
• Body protection: Protective work clothing			
• Thermal hazards Risk of burns during thermal proc	cessing.		
CECTION & Division and chamical mean]	
SECTION 9: Physical and chemical prop			
• 9.1. Information on basic physical and chemical	properties		
· General Information · Physical state	Solid		
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:	>100 °C		
Ignition temperature:	>300 °C		
 Decomposition temperature: 	Not determined.		
· pH	Not applicable.		
· Viscosity:	At room temperature: not applicable		
 Kinematic viscosity Dynamic: 	Not applicable. Not applicable.		
· 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/cm ³		
· Relative density	Not determined.	(Contd. on page 6)	
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· Vapour density · Particle characteristics	<i>(Contd. of page 5)</i> Not applicable. See item 3.
[•] 9.2. Other information	
· Appearance:	
· Form:	Solid
 Important information on protection of health and environment, and on safety. 	1
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 classe	9S
·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
\cdot 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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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_{50} values relevant for classification:

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

Oral LD₅₀ >2,000 mg/kg (rat) (84/449/EWG, B.1)

Dermal LD₅₀ >9,400 mg/kg (rabbit) (OECD 402)

Inhalative LC₅₀ /4 h 1.5 mg/l (not specified) (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.
- 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

LC₅₀ >1,000 mg / I / 96h (fish)

- EC_{50} >1,000 mg / I / 24h (water flea daphnia)
- IC₅₀ >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.
- $^{\cdot}$ 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.



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· 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:
- Not known to be hazardous to water.

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

European waste catalogi

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	
· 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 I	MO
instruments	Not applicable.

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

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· 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.

EUH204 Contains isocyanates. May produce an allergic reaction.

- · Department issuing SDS: Safety & Environment
- Version number of previous version: 2
- 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)





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(Contd. of page 9) DNEL: Derived No-Effect Level (REACH) PNEC: Predicted No-Effect Concentration (REACH) LC50: Lethal concentration, 50 percent DD50: 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