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

Printing date 08.06.2021

Version-No. 1

SECTION 1: Identification of the substance/mixture and of the company/undertaking
· 1.1. Product identifier
· Trade name / Article-No: KLEIBERIT 705.7
 • UFI: 5M5P-30M5-G00U-WXCJ • 1.2. Relevant identified uses of the substance / mixture or uses advised against Restricted to professional users. • 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) +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)
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 inhaled. Skin Sens. 1 H317 May cause an allergic skin reaction. Carc. 2 H351 Suspected of causing cancer. • 2.2. Label elements
Hazard pictograms
· 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. H317 May cause an allergic skin reaction. H351 Suspected of causing cancer.

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Trade name / Article-No: KLEIBERIT 705.7	
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Precautionary statements	
P261 Avoid breathing vapours. P280 Wear protective gloves.	
P300 Wear protective gloves. P314 Get medical advice/attention if you feel unwell.	
· Additional information:	
Contains isocyanates. May produce an allergic reaction.	
 Information concerning particular hazards for human and environment: 	
 Persons already sensitised to diisocyanates may develop allergic reactions when using this product 	
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:	
Registry-No's Identification / Classification GHS-CLP	%
CAS: 101-68-8 Reg.nr.: 01-2119457014-47-XXXX Resp. Sens. 1, H334; Carc. 2, H351; STOT RE 2, H373; / Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin S 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. STOT SE 3; C ≥ 5 %	ens. 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	
 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 a	and a mild alconing
agent.	and a mild cleaning
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 do • After swallowing: Call for a doctor immediately.	CIOF.
• 4.2. Most important symptoms and effects, both acute and delayed	
Asthma attacks	
Allergic reactions	
	(Contd. on page 3)

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• **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. 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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ade name / Article	-No: KLEIBERIT 705.7	
· 7.3. Specific end	l use(s) No further relevant information available.	(Contd. of page 3)
SECTION 8: E	Exposure controls/personal protection	
· 8.1. Control para	ameters	
 Ingredients with DNELs 	limit values that require monitoring at the workplace:	
101-68-8 diphen	ylmethane-4,4'-diisocyanate	
	short term 50 mg/kg (human being)	
	short term 0.1 mg/m3 (human being)	
· PNECs	ong term 0.05 mg/m3 (human being)	
PNEC- Freshwate	ylmethane-4,4'-diisocyanate er 1 mg/l (not specified)	
PNEC-seawater	0.1 mg/l (not specified)	
PNEC-periodic re		
PNEC-Freshwate	r sediment 1 mg/kg (not specified)	
PNEC-soil	1 mg/kg (not specified)	
	er treatment plant 1 mg/l (not specified)	
· Ingredients with	biological limit values:	
-	ylmethane-4,4'-diisocyanate	
BGW (Germany)	10 μg/g Kreatinin Untersuchungsmaterial: Urin Probennahmezeitpunkt: Expositionsende bzw. Schichtende Parameter: 4.4'-Diaminodiphenylmethan	
BMGV (Great Bri	tain) 1 μmol creatinine/mol Medium: urine Sampling time: At the end of the period od exposure	
	Parameter: isocyanate-derived diamine	
· CAS No. Desig	gnation of material % Type Value Unit	
-	ylmethane-4,4'-diisocyanate	
AGW (Germany)	Long-term value: 0.05 E mg/m³ 1;=2=(I);DFG, 11, 12, H, Sah, Y	
WEL (Great Brita	in) Short-term value: 0.07 mg/m³ Long-term value: 0.02 mg/m³ Sen; as -NCO	
PEL (USA)	Ceiling limit: 0.2 mg/m ³ , 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	
limit the exposure	e to: essional application with multiple and/or significant contact e to 4 hours	
· Appropriate eng	ineering controls No further data; see item 7.	(Contd. on page 5

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Control of page 4) Individual protection measures, such as personal protective equipment General protective and hygienic measures: The usual protective and hygienic measures: Respiratory protection: Use suitable respiratory protective device in case of insufficient ventilation: Filter A(P) (EN 14387) Filter A(DIN EN 14 387) Filter A(DIN EN 14 387) Filter A(DIN EN 14 387) Protective gloves Hatar resistant gloves Material of gloves Sufficient number - NBR: AlphaTec® (> 0,4 mm) Leather gloves Experiment - NBR: AlphaTec® (> 0,4 mm) Leather gloves Sufficient respiratory protective work (chifing - Thermal hazards Risk of burns during thermal processing. SECTION 9: Physical and chemical properties - General Information on basic physical and chemical properties - General Information - Physical state - Colour: - Coduri threshold: - Not determined. - Dispin or initial boiling point an boiling - Physical state - Colour threshold: - Not determined. - Upper: - Not determined. - Upper: - Not determined. - Dispin point - initial boiling point and boiling - Physical state - Physical state - Physical state - Cotanol/water (Iog value) - Not determined. - Not	Trade name / Article-No: KLEIBERIT 705.7			
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(Conta. on page o)	· Explosive properties:			
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Change in condition		
· Evaporation rate	Not applicable.	
Information with regard to physical hazard cl	asses	
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 flamma	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/LC₅₀ 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 (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.

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- 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.
- $^{\rm \cdot}$ 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)

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

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.
- 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 hazardous substances

- · 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

Printing date 08.06.2021 Version-No. 1 Revision: 08.06.2021 Trade name / Article-No: KLEIBERIT 705.7 (Contd. of page 7) · 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 IMO 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 · 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.

· 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

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 Abbreviations and acronyms:
ADR: Accord relatif au transport international des marchandises
International Carriage of Dangerous Goods by Road)
IMDC: International Manifima Cada fan Danaranaya Caada

s dangereuses par route (European Agreement 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 (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