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time to time

Printing date 09.02.2024

Version-No. 5 (replaces version 4)

Revision: 09.02.2024

Intillig date 09.02.2024	Version-No. 5 (replaces version 4)	VISION. 09.02.2024
SECTION 1: Identification	of the substance/mixture and of the company/	undertaking
· 1.1. Product identifier		
· Trade name / Article-No: KLEIE	BERIT 706.7	
 • UFI: GAQE-K04Q-C00N-U8GR • 1.2. Relevant identified uses of For professional users only. • Application of the substance / 	f the substance / mixture <u>or</u> uses advised against the mixture Adhesives	
 1.3. Details of the supplier of the Manufacturer/Supplier: KLEIBERIT SE & Co. KG Max-Becker-Str. 4 76356 Weingarten Germany Further information obtainable phone: +49 (0) 7244 62-0 FAX: +49 (0) 7244 700-0 E-Mail: hse@kleiberit.com 1.4. Emergency telephone num +44 1235 239670 European reginate Statistic con the second second	e from: ber: ional number (European languages) er for Malta	
SECTION 2: Hazards iden	·	
• 2.1. Classification of the subst		
	gulation (EC) No 1272/2008 - GHS/CLP	
_	allergy or asthma symptoms or breathing difficulties if inhaled	
Skin Sens. 1 H317 May cause a		
Carc. 2 H351 Suspected of	of causing cancer.	
2.2. Label elements		
Hazard pictograms		
GHS08		
· Signal word Danger		
Hazard-determining componer diphenylmethane-4,4'-diisocyana Hazard statements	te na symptoms or breathing difficulties if inhaled.	
H334 May cause allergy or asthm H317 May cause an allergic skin H351 Suspected of causing cance Precautionary statements P261 Avoid breathing vapours. P280 Wear protective gloves. P314 Get medical advice/attentic	cer.	(Contd. on page 2



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	· Additional information:	Contd. of page 1)
	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:	
	Registry-No's Identification / Classification GHS-CLP	%
	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	
	ATE: LC₅₀ /4 h inhalative: 11 mg/l	
	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; H335: C ≥ 5 %	
	• Additional information: For the wording of the listed hazard phrases refer to section 16.	
Γ	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 cleaning
	agent.	This cleaning
	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.	
		ontd. on page 3)



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 • 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. 	(Contd. of page 2)
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 section 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 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 measures are insufficient to keep the vapour concentration below the workplace limit, wear a respiratory protective device. Not less than 3-5 air exchanges per hour Appropriate regular employee training. Skin contact 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 Avoid contact with skin and eyes.	an adequate



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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	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/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	l/or significant contact	
limit the exposure to 4 hours	for significant contact	
· Appropriate engineering controls No further data; s	see section 7.	
[·] Individual protection measures, such as personal	protective equipment	
General protective and hygienic measures:		
The usual precautionary measures are to be adhered	to when handling chemicals.	
 Respiratory protection: Use suitable respiratory protective device in case of ir 	oufficient ventilation:	
Filter A		
At spray application respiratory protection must be wo	rn.	
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 proces	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:	Light	
 Odour threshold: Melting point/freezing point: 	Not determined. Undetermined.	
· Boiling point or initial boiling point and boiling	Undetermined.	
range	Undetermined.	
· Flammability	Not determined.	
· Lower and upper explosion limit		
· Lower:	Not determined.	
Upper:	Not determined.	
· Flash point:	Not applicable.	
 Auto-ignition temperature: Decomposition temperature: 	>300 °C Not determined.	
· pH	Mixture is non-soluble (in water).	
· 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: Density and/or relative density 	Not applicable.	
· Density at 20 °C:	ca. 1.1 g/cm³	
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 Relative density Vapour density Particle characteristics See section 3. 	(Contd. of page 5) Not determined. Not applicable.
 9.2. Other information Appearance: Form: Important information on protection of health and environment, and on safety. 	Solid
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	5
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 (Contd. on page 7)



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

Inhalative LC₅₀ /4 h 11 mg/l (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)

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

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.



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12.6 Endocrine disrupting properties	
The product does not contain substances	s with endocrine disrupting properties.
 12.7 Other adverse effects Behaviour in sewage processing plan 	te:
· Remark:	
At correct sewage disposal in small quan	tities to biological sewage plants failures of the activated sludge are
not expected. Additional ecological information: 	
	German Regulation) (Self-assessment): slightly hazardous for water
SECTION 13: Disposal consider	rations
13.1. Waste treatment methods	
· Recommendation	
Must not be disposed together with house European waste catalogue	ehold garbage. Do not allow product to reach sewage system.
08 04 09* waste adhesives and sealants	containing organic solvents or other hazardous substances
· Uncleaned packaging:	
 Recommendation: Non contaminated packagings may be re 	acycled
Empty contaminated packagings thoroug	hly. Disposal must be made according to official regulations.
SECTION 14: Transport informa	ition
· 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)	Void
· 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 accord	-
instruments	Not applicable.
SECTION 15: Regulatory inform	ation
 • 15.1. Safety, health and environmental See position no 2 - Hazards Identification 	I regulations/legislation specific for the substance or mixture
· Directive 2012/18/EU - Seveso-III:	
• Named dangerous substances - ANNE	X I None of the ingredients is included.
• Regulation (EC) No 1907/2006 - REACI	H, ANNEX XVII Conditions of restriction: 56, 74
Regulation (EU) No 649/2012	

None of the ingredients is listed.

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⁻ EU



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(Contd. of page 8) • 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: For professional users only.
- · VOC 2010/75/EU [g/L]: 1.1 g/l
- · VOC 2010/75/EU [%]: 0.10 %

· 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: 4

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

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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	
ATE: Acute toxicity estimate values	
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	
	EU
	LC