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Safety data sheet according to Regulation (EC) No. 1907/2006 as amended from

time to time

Printing date 24.01.2023

Version-No. 7 (replaces version 6)

Revision: 24.01.2023

SECTION 1: Identification of the substance/mixture and of the company/undertaking • 1.1. Product Identifier • Trade name / Article-No: KLEIBERIT 706.2.04 • UFI: DGYF-COVR-1009-GX75 • 1.3. 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 substance / the mixture Adhesives • 1.3. Details of the substance / the mixture Adhesives • 1.4. EnteRIT SE & Co. NC Max-Becker-Str. 4 D - 76356 Weingatten / Baden Germany • Further Information obtainable from: phone: +49 (0) 7244 62-0 FAX: +49 (0) 7244 700-0 E-Mail: Inse@kileberit.com • 1.4. Emergency telephone number (European languages) • 12.2 Emergency telephone number for Malta • 44 235 239670 European regional number (European languages) • 122 Emergency telephone number for Malta • 43 22 22 Icelandic University Hospital SECTION 2: Hazards identification • 1.1 Classification of the substance or mixture • Classification according to Regulation (EC) No 1272/2008 - GHS/CLP Resp. Sens. 1 H331 May cause an allergic skin reaction. Care. 2 H315 Suspected of causing cancer. <t< th=""><th>•</th><th></th><th></th></t<>	•		
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Additional informatio	(Contd. of page
	n: May produce an allergic reaction.
	23 adequate training is required before industrial or professional use.
	ng particular hazards for human and environment:
Denservel	
	sitised to diisocyanates may develop allergic reactions
when using this produc	
	m asthma, eczema or skin problems should avoid nal contact, with this product.
- This product should n	not be used under conditions of poor ventilation
	sk with an appropriate gas filter (i.e. type A1
according to standard I	
2.3. Other hazards	
Results of PBT and v	PvB assessment
PBT: Not applicable.	
vPvB: Not applicable.	
SECTION 3: Com	position/information on ingredients
3.2 Mixtures	
	of substances listed below with nonhazardous additions.
Dangerous compone	
v .	
Registry-No's	Identification / Classification GHS-CLP
CAS: 101-68-8	diphenylmethane-4,4'-diisocyanate ≥1-<2.
	14-47-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 ≥ 5 %
	Resp. Sens. 1; H334: C ≥ 0.1 % STOT SE 3; C ≥ 5 %
Additional informatio	n: For the wording of the listed hazard phrases refer to section 16.
SECTION 4: First	
4.1. Description of fire	st aid measures
4.1. Description of fire After inhalation:	
4.1. Description of fir After inhalation: Supply fresh air and to	be sure call for a doctor.
4.1. Description of fir After inhalation: Supply fresh air and to In case of unconscious	be sure call for a doctor. sness place patient stably in side position for transportation.
4.1. Description of fir After inhalation: Supply fresh air and to In case of unconscious Take affected persons	be sure call for a doctor.
4.1. Description of fir After inhalation: Supply fresh air and to In case of unconscious Take affected persons After skin contact:	be sure call for a doctor. sness place patient stably in side position for transportation. into fresh air and keep quiet.
4.1. Description of fir After inhalation: Supply fresh air and to In case of unconscious Take affected persons After skin contact: After contact with the n	be sure call for a doctor. sness place patient stably in side position for transportation. into fresh air and keep quiet. nolten product, cool rapidly with cold water.
4.1. Description of fir After inhalation: Supply fresh air and to In case of unconscious Take affected persons After skin contact: After contact with the n Treat affected skin with	be sure call for a doctor. sness place patient stably in side position for transportation. into fresh air and keep quiet.
4.1. Description of fir After inhalation: Supply fresh air and to In case of unconscious Take affected persons After skin contact: After contact with the n Treat affected skin with agent.	be sure call for a doctor. sness place patient stably in side position for transportation. into fresh air and keep quiet. nolten product, cool rapidly with cold water. n cotton wool or cellulose. Then wash and rinse thoroughly with water and a mild clear
4.1. Description of fir After inhalation: Supply fresh air and to In case of unconscious Take affected persons After skin contact: After contact with the n Treat affected skin with agent. Immediately wash with	be sure call for a doctor. sness place patient stably in side position for transportation. into fresh air and keep quiet. nolten product, cool rapidly with cold water. n cotton wool or cellulose. Then wash and rinse thoroughly with water and a mild clear water and soap and rinse thoroughly.
4.1. Description of fir After inhalation: Supply fresh air and to In case of unconscious Take affected persons After skin contact: After contact with the n Treat affected skin with agent. Immediately wash with If skin irritation continue	be sure call for a doctor. sness place patient stably in side position for transportation. into fresh air and keep quiet. nolten product, cool rapidly with cold water. n cotton wool or cellulose. Then wash and rinse thoroughly with water and a mild clear water and soap and rinse thoroughly.
4.1. Description of fir After inhalation: Supply fresh air and to In case of unconscious Take affected persons After skin contact: After contact with the n Treat affected skin with agent. Immediately wash with If skin irritation continue After eye contact:	be sure call for a doctor. sness place patient stably in side position for transportation. into fresh air and keep quiet. nolten product, cool rapidly with cold water. n cotton wool or cellulose. Then wash and rinse thoroughly with water and a mild clear water and soap and rinse thoroughly.



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- 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 cvanide (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	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		(Contd. of page 4)
additional to professional application with multiple and limit the exposure to 4 hours	d/or significant contact	
• Appropriate engineering controls No further data;	see item 7.	
 Individual protection measures, such as personal 		
• General protective and hygienic measures:	1	
The usual precautionary measures are to be adhered	to when handling chemicals.	
Respiratory protection:	-	
Use suitable respiratory protective device in case of i	nsufficient ventilation:	
Filter A (DIN EN 14 387)		
At spray application respiratory protection must be we	orn.	
 Hand protection Protective gloves 		
Heat resistant gloves		
· Material of gloves		
<u>A</u> 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 proce	essing.	
SECTION 9: Physical and chemical prope	erties	
9.1. Information on basic physical and chemical p		
• 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:	Not applicable.	
· Ignition temperature:	>300 °C	
· Decomposition temperature:	Not determined.	
· pH · Viscosity:	Not applicable. At room temperature: not applicable	
· Kinematic viscosity	Not applicable.	
Dynamic:	Not applicable.	
	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	
-	<u> </u>	(Contd. on page 6)
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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.	
 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	i
· 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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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 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)

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

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 v	with endocrine disrupting properties.
12.6. Other adverse effects	
Behaviour in sewage processing plants	
Remark:	
	ies 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 considera	tions
· 13.1. Waste treatment methods	
· Recommendation	
	old garbage. Do not allow product to reach sewage system
Must not be disposed together with househ	old garbage. Do not allow product to reach sewage system.
Must not be disposed together with househ • European waste catalogue	
Must not be disposed together with househ • European waste catalogue 08 04 09* waste adhesives and sealants co	old garbage. Do not allow product to reach sewage system. ontaining organic solvents or other hazardous substances
Must not be disposed together with househ • European waste catalogue 08 04 09* waste adhesives and sealants co • Uncleaned packaging:	
Must not be disposed together with househ • European waste catalogue 08 04 09* waste adhesives and sealants co • Uncleaned packaging: • Recommendation:	ontaining organic solvents or other hazardous substances
Must not be disposed together with househ • European waste catalogue 08 04 09* waste adhesives and sealants co • Uncleaned packaging: • Recommendation: Non contaminated packagings may be recy	ontaining organic solvents or other hazardous substances
Must not be disposed together with househ • European waste catalogue 08 04 09* waste adhesives and sealants co • Uncleaned packaging: • Recommendation: Non contaminated packagings may be recy	ontaining organic solvents or other hazardous substances
Must not be disposed together with househ • European waste catalogue 08 04 09* waste adhesives and sealants co • Uncleaned packaging: • Recommendation: Non contaminated packagings may be recy Empty contaminated packagings thorough	ontaining organic solvents or other hazardous substances ycled. y. Disposal must be made according to official regulations.
Must not be disposed together with househ • European waste catalogue 08 04 09* waste adhesives and sealants co • Uncleaned packaging: • Recommendation: Non contaminated packagings may be recy	ontaining organic solvents or other hazardous substances ycled. y. Disposal must be made according to official regulations.
Must not be disposed together with househ • European waste catalogue 08 04 09* waste adhesives and sealants co • Uncleaned packaging: • Recommendation: Non contaminated packagings may be recy Empty contaminated packagings thorough • SECTION 14: Transport informati • 14.1. UN number or ID number	ontaining organic solvents or other hazardous substances ycled. y. Disposal must be made according to official regulations.
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Must not be disposed together with househ • European waste catalogue 08 04 09* waste adhesives and sealants co • Uncleaned packaging: • Recommendation: Non contaminated packagings may be recy Empty contaminated packagings thorough SECTION 14: Transport informati • 14.1. UN number or ID number • ADR, IMDG, IATA • 14.2. UN proper shipping name	ontaining organic solvents or other hazardous substances ycled. y. Disposal must be made according to official regulations. on Void
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• **15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture** See position no 2 - Hazards Identification

· 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: 56, 74

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EU -



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Safety data sheet

according to Regulation (EC) No. 1907/2006 as amended from

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Trade name	Article-No:	KLEIBERIT	70)6.2.(94
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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: 6
- 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

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time to time

Printing date 24.01.2023

Version-No. 7 (replaces version 6)

Revision: 24.01.2023

Trade name / Article-No: KLEIBERIT 706.2.04

ELINCS: European List of Notified Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) DNEL: Derived No-Effect Level (REACH)	(Contd. of page 9,
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	