

Page 1/9

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

time to time

Printing date 21.03.2024

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Version-No. 2 (replaces version 1)

Revision: 21.03.2024

	identifier	
Trade name	/ Article-No: KLEIBERIT 701.0.30	
UFI: W4MM- 1.2. Relevan For professio	40MV-F008-5243 t identified uses of the substance / mixture <u>or</u> uses advised against mal users only. of the substance / the mixture Adhesives	
Manufacture KLEIBERIT S Max-Becker- 76356 Weing Germany Further info phone: +49 (0) E-Mail: hse@ 1.4. Emerge +44 1235 23 112 Emerger	SE & Co. KG Str. 4 garten rmation obtainable from: 0) 7244 62-0	
SECTION	0. Herevde identification	
	2: Hazards identification	
	cation of the substance or mixture on according to Regulation (EC) No 1272/2008 - GHS/CLP	
	1 H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.	
	H317 May cause an allergic skin reaction.	
Carc. 2	H351 Suspected of causing cancer.	
2.2. Label el		
Hazard picto GHS08		
Signal word	Danger	
Hazard-dete	rmining components of labelling: lane-4,4'-diisocyanate ements luse allergy or asthma symptoms or breathing difficulties if inhaled. luse an allergic skin reaction.	

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Trade name / Article-No: KLEIBERIT 701.0.30 (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 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. **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. · 4.2. Most important symptoms and effects, both acute and delayed Asthma attacks Allergic reactions (Contd. on page 3)

Safety data sheet

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Revision: 21.03.2024

Trade name / Article-No: KLEIBERIT 701.0.30 (Contd. of page 2) · 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 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 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 Appropriate regular employee training. Skin contact and inhalation of aerosols/vapours of the preparation should be avoided. 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.

(Contd. on page 4)

EU

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Trade name / Article-No: KLEIBERIT 701.0.30	
· 7.3. Specific end use(s) No further relevant information available.	(Contd. of page 3)
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) PNEC-wastewater treatment plant 1 mg/l (not specified) PNEC-wastewater treatment plant 2 mg/l (not specified) PNEC-wastewater treatment plant 3 mg/l (not specified) • 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: 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 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 insufficient ventilation: Filter A At spray application respiratory protection must be worn. 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 processing. 	(Contd on page 5)

(Contd. on page 5) - EU -

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Revision: 21.03.2024

Trade name / Article-No: KLEIBERIT 701.0.30

(Contd. of page 4)

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SECTION 9: Physical and chemical prope	rties
9.1. Information on basic physical and chemical pr	operties
General Information	
Physical state	Solid
Colour:	According to product specification
Odour:	Weak, characteristic
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
Auto-ignition temperature:	>300 °C
Decomposition temperature:	Not determined.
pH	Not applicable.
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:	Not applicable.
Density and/or relative density	••
Density at 20 °C:	ca. 1.1 g/cm³
Relative density	Not determined.
Vapour density	Not applicable.
Particle characteristics	
See section 3.	
9.2. Other information	
Appearance:	
Form:	Solid
Important information on protection of health and	
environment, and on safety.	
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
	Void
Flammable solids	
Self-reactive substances and mixtures	Void
Self-reactive substances and mixtures Pyrophoric liquids	Void
Self-reactive substances and mixtures	

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SUD DOMO / APTICIA.	No: KLEIBERIT 701.	0.30	
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· Substances and	mixtures, which emit f	flammable	(Contd. of page 5)
gases in contact	-	Void	
• Oxidising liquids		Void	
· Oxidising solids		Void	
· Organic peroxide		Void	
· Corrosive to met		Void	
· Desensitised exp	olosives	Void	
SECTION 10:	Stability and reacti	ivity	
· 10.1. Reactivity		2	
see item 10.3			
	t information available.		
	tability Stable when sto		
		 be avoided: No decomposition if used accordin s No dangerous reactions known. 	y to specifications.
		evant information available.	
		relevant information available.	
	decomposition produc		
· Additional inform			
		applied, vapours are set free and an unpleasant o	odour can occur,
		rature has been observed. Moreover if the prescri	
		eriod, harmful decomposition products can develo	p. Precautions
		e.g. by using a suitable ventilation system.	
		the vapours have to be taken, e.g. by means of a	an appropriate
Therefore measure ventilation/ exhaust		the vapours have to be taken, e.g. by means of a	an appropriate
ventilation/ exhau	st device.		an appropriate
ventilation/ exhause	st device. Toxicological infor	rmation	an appropriate
ventilation/ exhause SECTION 11: 11.1. Information	st device. Toxicological infor on hazard classes as	rmation defined in Regulation (EC) No 1272/2008	an appropriate
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Version-No. 2 (replaces version 1)

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Trade name / Article-No: KLEIBERIT 701.0 .	іт 701.0.30
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(Contd. of page 6)

•	11.2	Info	rmation	on	other	hazards
	E a al a	!				

• 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.

- 12.7 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.

Void

Void

Void

Void

Not applicable.

Not applicable.

SECTION 14: Transport information

· ADR, IMDG, IATA	
14.2. UN proper shipping name	
DOT, ADR, IMDG, IATA	
44.9 Transact harved alass (as)	

• 14.3. Transport hazard class(es)

- · Class
- · 14.4. Packing group · ADR, IMDG, IATA
- · 14.5. Environmental hazards:
- 14.6. Special precautions for user

(Contd. on page 8)

Safety data sheet

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

time to time

Printing date 21.03.2024

Version-No. 2 (replaces version 1)

Revision: 21.03.2024

(Contd. of page 7)

Trade name / Article-No: KLEIBERIT 701.0.30

• 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

- 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
- · 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: For professional users only.

· 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
- \cdot Version number of previous version: 1
- 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)

(Contd. on page 9)

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

Printing date 21.03.2024

Version-No. 2 (replaces version 1)

Revision: 21.03.2024

Trade name / Article-No: KLEIBERIT 701.0.30

	(Contd. of page 8)
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	
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	
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