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

Printing date 17.03.2022

Version-No. 1

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| SECTION 4. Identification of the substance/mixture and of the company/u | ndortoking |
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| SECTION 1: Identification of the substance/mixture and of the company/u | ndertaking |
| · Trade name / Article-No: KLEIBERIT 702.1.30 | |
| • Trade name / Article-No: KLEIBERT / 02. 1.30 • UFI: 7TTQ-R0YS-100T-4DP0 • 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: 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 inhaled. | |
| 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. H317 May cause an allergic skin reaction. H351 Suspected of causing cancer. | |
| Precautionary statements P261 Avoid breathing vapours. | |
| P280 Wear protective gloves. P314 Get medical advice/attention if you feel unwell. | |
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| ac | Safety data sheet cording to 1907/2006/EC, Article 3 ^r | 1 |
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| Additional information: Contains isocyanates. May produc Information concerning particular | e an allergic reaction. ar hazards for human and environmen | (Contd. of page 1) |
| when using this product. - Persons suffering from asthma, e contact, including dermal contact, | under conditions of poor ventilation ppropriate gas filter (i.e. type A1 s used. | S |
| SECTION 3: Composition/i | nformation on ingredients | |
| • 3.2 Mixtures • Description: Mixture of substance | s listed below with nonhazardous additio | ns. |
| · Dangerous components: | | |
| · Registry-No's Iden | tification / Classification GHS-CLP | % |
| CAS: 25322-69-4 | polypropylene glycol Acute Tox. 4, H302 | 5-10% |
| CAS: 101-68-8 Reg.nr.: 01-2119457014-47-XXXX | | it. 2, H319; Skin Sens. 1, ; H315: C ≥ 5 % ; H319: C ≥ 5 % s. 1; H334: C ≥ 0.1 % |
| • Additional information: For the w | ording of the listed hazard phrases refer | to section 16. |
| SECTION 4: First aid meas | | |
| Take affected persons into fresh a After skin contact: After contact with the molten production affected skin with cotton wood agent. Immediately wash with water and so if skin irritation continues, consult a After eye contact: Rinse opened eye for several minution. After swallowing: Call for a doctor | for a doctor. patient stably in side position for transpor ir and keep quiet. Inct, cool rapidly with cold water. In or cellulose. Then wash and rinse thoro soap and rinse thoroughly. In doctor. | oughly with water and a mild cleaning |

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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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| · 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- Freshwater1 mg/l (not specified)PNEC-seawater0.1 mg/l (not specified)PNEC-periodic release10 mg/l (not specified)PNEC-Freshwater sediment1 mg/kg (not specified)PNEC-soil1 mg/kg (not specified)PNEC-wastewater treatment plant 1 mg/l (not specified) | |
| Ingredients with biological limit values: | |
| 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: 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 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/P2 (EN 14387) Filter A (DIN EN 14 387) 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 | (Contd. on page 5) |

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· Body protection: Protective work clothing

· Thermal hazards Risk of burns during thermal processing.

SECTION 9: Physical and chemical properties · 9.1. Information on basic physical and chemical properties · General Information · Physical state Solid · Colour: According to product specification · Odour: Light Not determined. · Odour threshold: • 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: Not applicable. · 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 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 · 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 (Contd. on page 6)

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| Substances and mixtures, which emit flamm | nable | (Contd. of page 5) |
|---|-------|--------------------|
| 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:

25322-69-4 polypropylene glycol

Oral LD₅₀ 1,000 mg/kg (not specified) (geschätzt / estimated)

Dermal LD₅₀ >3,000 mg/kg (rabbit)

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.

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| Aspiration hazard Based on available data 11.2 Information on other hazards Endocrine disrupting properties | (<i>Contd. of page</i> a, the classification criteria are not met. |
| None of the ingredients is listed. | |
| SECTION 12: Ecological informat | ion |
| 12.1. Toxicity Aquatic toxicity: | |
| 25322-69-4 polypropylene glycol | |
| LC_{50} >100 mg / I / 96h (guppy - Poecilia reti | iculata) |
| EC_{50} >100 mg / I / 48h (water flea - daphnia | ı) |
| EC ₅₀ >100 mg / I / 72h (algae) | |
| 101-68-8 diphenylmethane-4,4'-diisocya | nate |
| LC ₅₀ >1,000 mg / I / 96h (fish) | |
| EC ₅₀ >1,000 mg / I / 24h (water flea - daphr | nia) |
| IC ₅₀ >1,640 mg / I / 72h (algae) 12.2. Persistence and degradability No fe | urther relevant information available |
| 12.3. Bioaccumulative potential No furthe | |
| 12.4. Mobility in soil No further relevant in | |
| 12.5. Results of PBT and vPvB assessm | |
| PBT: Not applicable. | |
| vPvB: Not applicable. 12.6 Endocrine disrupting properties | |
| The product does not contain substances v | vith 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: | man Regulation) (Self-assessment): slightly hazardous for water |
| General notes. Water hazard class r (Gen | man regulation (Gen-assessment). Signity hazardous for water |
| SECTION 13: Disposal considera 13.1. Waste treatment methods | tions |
| Recommendation | |
| Must not be disposed together with househ European waste catalogue | old garbage. Do not allow product to reach sewage system. |
| | ontaining organic solvents or other hazardous substances |
| Uncleaned packaging: Recommendation: | |
| Non contaminated packagings may be recy | /cled. |
| | y. Disposal must be made according to official regulations. |
| SECTION 14: Transport informati | on |
| 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) | |

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|---|--|
| · 14.4. Packing group | (Contd. of page 7) |
| · 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 IM | |
| instruments | Not applicable. |
| SECTION 15: Regulatory information | |
| | ons/legislation specific for the substance or mixture |
| · EU-Regulations | |
| 101-68-8 diphenylmethane-4,4'-diisocyanate: REA | CH, Annex XVII, No. 56, 74 |
| Directive 2012/18/EU - Seveso-III: Named dangerous substances - ANNEX I None Regulation (EC) No 1907/2006 - REACH, ANNEX Regulation (EU) No 649/2012 | |
| None of the ingredients is listed. • DIRECTIVE 2011/65/EU on the restriction of the electronic equipment – Annex II | e use of certain hazardous substances in electrical and |
| None of the ingredients is listed. · REGULATION (EU) 2019/1148 · Annex I - RESTRICTED EXPLOSIVES PRECURS under Article 5(3)) | SORS (Upper limit value for the purpose of licensing |
| None of the ingredients is listed. • Annex II - REPORTABLE EXPLOSIVES PRECUE | RSORS |
| None of the ingredients is listed. • Regulation (EC) No 273/2004 on drug precurso | rs |
| None of the ingredients is listed. • Regulation (EC) No 111/2005 laying down rules third countries in drug precursors | for the monitoring of trade between the Community and |
| None of the ingredients is listed. | |
| · National regulations: | |
| D: Waterhazard class Water hazard class 1 (Self- Other regulations, limitations and prohibitive regulations. | |
| • 15.2. Chemical safety assessment: A Chemical S | Safety Assessment has not been carried out. |
| SECTION 16: Other information | |
| | ge. However, this shall not constitute a guarantee for any legally valid contractual relationship. |
| Relevant phrases H302 Harmful if swallowed. H315 Causes skin irritation. H317 May cause an allergic skin reaction. | |

- H317 H319 May cause an allergic skin reaction.
- Causes serious eye irritation.
- H332 Harmful if inhaled.
- May cause allergy or asthma symptoms or breathing difficulties if inhaled. H334
- H335 May cause respiratory irritation.
- H351 Suspected of causing cancer.

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Trade name / Article-No: KLEIBERIT 702.1.30 (Contd. of page 8) H373 May cause damage to organs through prolonged or repeated exposure. EUH204 Contains isocyanates. May produce an allergic reaction. · Department issuing SDS: Safety & Environment 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) 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 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