

Page 1/7

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

Printing date 11.11.2021

Version-No. 1

Revision: 11.11.2021

| SECTION 1: Identification of the substance/mixture and of the company/undertaking   |  |  |  |  |
|---|--|--|--|--|
| · 1.1. Product identifier   |  |  |  |  |
| Trade name / Article-No: KLEIBERIT 706.2.50 ME  |  |  |  |  |
| <ul> <li>• 1.2. Relevant identified uses of the substance / mixture or uses advised against</li> <li>No further relevant information available.</li> <li>• Application of the substance / the mixture Adhesives</li> </ul>  |  |  |  |  |
| <ul> <li>1.3. Details of the supplier of the safety data sheet</li> <li>Manufacturer/Supplier:<br/>KLEIBERIT SE &amp; Co. KG<br/>Max-Becker-Str. 4<br/>D - 76356 Weingarten / Baden<br/>Germany</li> <li>Further information obtainable from:<br/>phone: +49 (0) 7244 62-0<br/>FAX: +49 (0) 7244 700-0<br/>E-Mail: hse@kleiberit.com</li> <li>1.4. Emergency telephone number:<br/>+44 1235 239670<br/>European regional number (European languages)<br/>+44 1235 239671<br/>Middle Eastern/African regional number (Middle Eastern/African languages)<br/>+1 215 207 0061<br/>Americas regional number (English, Spanish, Portuguese)<br/>+65 3158 1412<br/>Asia Pacific regional number (English, Bahasa, Malaysia, Hindi, Japanese, Korean, Mandarin,</li> </ul> |  |  |  |  |
| Tagalog)  |  |  |  |  |
| SECTION 2: Hazards identification   |  |  |  |  |
| <ul> <li>2.1. Classification of the substance or mixture</li> <li>Classification according to Regulation (EC) No 1272/2008 - GHS/CLP</li> <li>The product is not classified as hazardous to health or environment according to the CLP regulation.</li> </ul>   |  |  |  |  |
| <ul> <li>2.2. Label elements</li> <li>Hazard pictograms Void</li> <li>Signal word Void</li> <li>Hazard statements Void</li> <li>Additional information:<br/>Safety data sheet available on request.<br/>Contains isocyanates. May produce an allergic reaction.</li> <li>2.3. Other hazards</li> <li>Results of PBT and vPvB assessment</li> <li>PBT: Not applicable.</li> <li>vPvB: Not applicable.</li> </ul>   |  |  |  |  |
| SECTION 3: Composition/information on ingredients   |  |  |  |  |
| <ul> <li>• 3.2 Mixtures</li> <li>• Description: Mixture of substances listed below with nonhazardous additions.</li> </ul>  |  |  |  |  |

(Contd. on page 2)

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| Printing date 11.11.2021  | Version-No. 1   | Revision: 11.11.2021   |  |  |
|---|---|--|--|--|
| Trade name / Article-No: KLEIBERIT 706.2.50 ME  |   |  |  |  |
| · Dangerous components:   |   | (Contd. of page 1)   |  |  |
|   | tification / Classification GHS-CLP   | %  |  |  |
|   | Resp. Sen<br>STOT SE 3  | H319; Skin Sens. 1, H317;<br>; H315: C ≥ 5 %<br>. H319: C ≥ 5 %<br>s. 1; H334: C ≥ 0.1 %<br>3; C ≥ 5 % |  |  |
| • Additional information: For the w   | vording of the listed hazard phrases refer  | to section 16.   |  |  |
| SECTION 4: First aid meas   | ures  |  |  |  |
| <ul> <li>After skin contact:<br/>Treat affected skin with cotton woo<br/>agent.</li> <li>If skin irritation continues, consult a</li> <li>After eye contact:<br/>Rinse opened eye for several minu</li> <li>After swallowing: Call for a docto</li> <li>4.2. Most important symptoms a<br/>No further relevant information available</li> </ul> | consult doctor in case of complaints.<br>of or cellulose. Then wash and rinse thoro<br>a doctor.<br>utes under running water. If symptoms pe<br>or immediately.<br>und effects, both acute and delayed<br>ailable.<br>medical attention and special treatme | rsist, consult a doctor.   |  |  |
| SECTION 5: Firefighting m   | easures   |  |  |  |
| <ul> <li>5.1. Extinguishing media</li> <li>Suitable extinguishing agents:<br/>CO2, powder or water spray. Fight</li> <li>5.2. Special hazards arising fron</li> <li>5.3. Advice for firefighters</li> </ul>   | larger fires with water spray or alcohol re<br>n the substance or mixture No further re<br>-contained respiratory protective device.  | esistant foam.<br>elevant information available.   |  |  |
| SECTION 6: Accidental rele  | ease measures   |  |  |  |
| 6.2. Environmental precautions:   | ontainment and cleaning up: Pick up me<br>afe handling.<br>ersonal protection equipment.  | ·  |  |  |
| SECTION 7: Handling and   | storago   |  |  |  |
| • 7.1. Precautions for safe handlin   |   |  |  |  |
| <ul> <li>7.2. Conditions for safe storage,</li> <li>Storage:</li> <li>Requirements to be met by store</li> </ul>  | erooms and receptacles: Keep containe<br>ecoms and receptacles: Keep containe<br>e common storage facility: Observe the   |  |  |  |

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Printing date 11.11.2021

Version-No. 1

Revision: 11.11.2021

| Trade name / Article-No: KLEIBERIT 706.2.50 ME   |                    |
|--|--------------------|
| · 7.3. Specific end use(s) No further relevant information available.  | (Contd. of page 2) |
| SECTION 8: Exposure controls/personal protection   |                    |
| · 8.1. Control parameters  |                    |
| <ul> <li>Ingredients with limit values that require monitoring at the workplace:</li> <li>DNELs</li> </ul>   |                    |
| 5873-54-1 diphenylmethane-2,4'-diisocyanate<br>Dermal DNEL short term 50 mg/kg (human being)<br>Inhalative DNEL short term 0.1 mg/m3 (human being)<br>DNEL long term 0.05 mg/m3 (human being)<br>• PNECs   |                    |
| 5873-54-1 diphenylmethane-2,4'-diisocyanatePNEC- Freshwater1 mg/l (not specified)PNEC-seawater0.1 mg/l (not specified)PNEC-soil1 mg/kg (not specified)PNEC-wastewater treatment plant1 mg/l (not specified)  |                    |
| Ingredients with biological limit values:  |                    |
| <ul> <li>5873-54-1 diphenylmethane-2,4'-diisocyanate</li> <li>BMGV (Great Britain) 1 µmol creatinine/mol<br/>Medium: urine<br/>Sampling time: At the end of the period od exposure<br/>Parameter: isocyanate-derived diamine</li> <li>CAS No. Designation of material % Type Value Unit</li> </ul>   |                    |
| 5873-54-1 diphenylmethane-2,4'-diisocyanate  |                    |
| AGW (Germany) Long-term value: 0.05 mg/m <sup>3</sup>  |                    |
| 1;=2=(I);AGS, 11, 12<br>WEL (Great Britain) Short-term value: 0.07 mg/m³<br>Long-term value: 0.02 mg/m³<br>Sen; as -NCO  |                    |
| <ul> <li>8.2. Exposure controls</li> <li>limit the exposure to:</li> <li>8 hours</li> <li>Appropriate engineering controls No further data; see item 7.</li> </ul>   |                    |
| <ul> <li>Individual protection measures, such as personal protective equipment</li> <li>General protective and hygienic measures:<br/>The usual precautionary measures are to be adhered to when handling chemicals.</li> <li>Respiratory protection: Filter A/P2 (EN 14387)</li> <li>Hand protection<br/>Protective gloves<br/>Heat resistant gloves</li> <li>Material of gloves Leather gloves</li> <li>Eye/face protection Safety glasses</li> <li>Body protection: Protective work clothing</li> <li>Thermal hazards Risk of burns during thermal processing.</li> </ul> | (Contd. on page 4) |

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

Printing date 11.11.2021

Version-No. 1

Revision: 11.11.2021

## Trade name / Article-No: KLEIBERIT 706.2.50 ME

|  | (Contd. of page                               |
|--|---|
| SECTION 9: Physical and chemical proper            | rties   |
| 9.1. Information on basic physical and chemical pr |   |
| 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.                               |
| Auto-ignition temperature:                         | Product is not selfigniting.                  |
| 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   |
|  | Solid   |
| Important information on protection of health and  |   |
| environment, and on safety.                        | × 200 °C                                      |
| Ignition temperature:                              | >300 °C                                       |
| Explosive properties:                              | Product does not present an explosion hazard. |
| Change in condition                                | Net en l'achte                                |
| 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  |
| Substances and mixtures, which emit flammable      | VOIG  |
|  | Void  |
| gases in contact with water                        | Void  |
| Oxidising liquids                                  | Void  |
| Oxidising solids                                   | Void (Contri on norm                          |
|  | (Contd. on page                               |

### Version-No. 1 Printing date 11.11.2021 Revision: 11.11.2021 Trade name / Article-No: KLEIBERIT 706.2.50 ME (Contd. of page 4) 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: No dangerous decomposition products known. · 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/LC<sub>50</sub> values relevant for classification: 5873-54-1 diphenylmethane-2,4'-diisocyanate >2,000 mg/kg (rat) (84/449/EWG, B.1) Oral $LD_{50}$ Dermal $LD_{50}$ >9,400 mg/kg (rabbit) (OECD 402) Inhalative LC<sub>50</sub> /4 h 1.5 mg/l (rat) (Calculation (ATE)) · 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 Based on available data, the classification criteria are not met. · Germ cell mutagenicity Based on available data, the classification criteria are not met. · Carcinogenicity Based on available data, the classification criteria are not met. · 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: 5873-54-1 diphenylmethane-2,4'-diisocyanate LC<sub>50</sub> >1,000 mg / I / 96h (Zebrafish - Danio rerio)

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

IC<sub>50</sub> >1.640 mg / I / 72h (Chlorophyceae - Scenedesmus subspicatus)

12.2. Persistence and degradability No further relevant information available.

(Contd. on page 6)

INT

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Printing date 11.11.2021

Version-No. 1

Revision: 11.11.2021

## Trade name / Article-No: KLEIBERIT 706.2.50 ME

| Traue frame / Article-No. RLEIDERTT / 00.2.00 ML   |   |  |  |  |
|--|---|--|--|--|
|  | (Contd. of page 5)  |  |  |  |
| <ul> <li>12.3. Bioaccumulative potential No further relevant information available.</li> </ul>     |   |  |  |  |
| 12.4. Mobility in soil No further relevant information   |   |  |  |  |
| 12.5. Results of PBT and vPvB assessment   |   |  |  |  |
| · <b>PBT:</b> Not applicable.  |   |  |  |  |
| <b>vPvB:</b> Not applicable.   |   |  |  |  |
| 12.6 Endocrine disrupting properties   |   |  |  |  |
| The product does not contain substances with endoc   | rine disrupting properties.                               |  |  |  |
| 12.6. Other adverse effects  |   |  |  |  |
| · Behaviour in sewage processing plants:   |   |  |  |  |
| · Remark:  |   |  |  |  |
| At correct sewage disposal in small quantities to biology  | ogical sewage plants failures of the activated sludge are |  |  |  |
| not expected.  |   |  |  |  |
| Additional ecological information:   |   |  |  |  |
| General notes: Water hazard class 1 (German Regulation)  | ulation) (Self-assessment): slightly hazardous for water  |  |  |  |
|  |   |  |  |  |
| SECTION 13: Disposal considerations  |   |  |  |  |
| · 13.1. Waste treatment methods  |   |  |  |  |
| · Recommendation   |   |  |  |  |
| Must not be disposed together with household garba   | ge. Do not allow product to reach sewage system.          |  |  |  |
| · European waste catalogue   |   |  |  |  |
| 08 04 10 waste adhesives and sealants other than those mentioned in 08 04 09                       |   |  |  |  |
| · 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  |   |  |  |  |
| <ul> <li>14.1. UN number or ID number</li> </ul>   |   |  |  |  |
| · ADR, IMDG, IATA  | Void  |  |  |  |
| <ul> <li>14.2. UN proper shipping name</li> </ul>  |   |  |  |  |
| · DOT, ADR, IMDG, IATA   | Void  |  |  |  |
| <ul> <li>14.3. Transport hazard class(es)</li> </ul>   |   |  |  |  |
| · Class  | Void  |  |  |  |
| 14.4. Packing group  |   |  |  |  |
| ADR, IMDG, IATA  | Void  |  |  |  |
| 14.5. Environmental hazards:   | Not applicable.   |  |  |  |
| 14.6. Special precautions for user   | Not applicable.   |  |  |  |
| <ul> <li>14.7. Maritime transport in bulk according to IMO</li> </ul>                              |   |  |  |  |
| 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: 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.

Printing date 11.11.2021

Version-No. 1

## Trade name / Article-No: KLEIBERIT 706.2.50 ME

(Contd. of page 6)

INT

- · 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.

· 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

#### 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 (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