

## Safety data sheet

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

Printing date 12.01.2024

Version-No. 2 (replaces version 1)

Revision: 12.01.2024

### SECTION 1: Identification of the substance/mixture and of the company/undertaking

- **1.1. Product identifier**
- Trade name / Article-No: **KLEIBERIT 711.0.52 ME**
- UFI: E8QS-F013-M00T-MVGX
- **1.2. 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 supplier of the safety data sheet**
- **Manufacturer/Supplier:**  
KLEIBERIT SE & Co. KG  
Max-Becker-Str. 4  
76356 Weingarten  
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**  
Skin Sens. 1 H317 May cause an allergic skin reaction.
- **2.2. Label elements**
- **Hazard pictograms**  
  
GHS07
- **Signal word** Warning
- **Hazard-determining components of labelling:**  
aliphatic polyisocyanate, based on hexamethylene diisocyanate
- **Hazard statements**  
H317 May cause an allergic skin reaction.
- **Precautionary statements**  
P261 Avoid breathing mist/vapours/spray.  
P273 Avoid release to the environment.  
P280 Wear protective gloves / eye protection.  
P302+P352 IF ON SKIN: Wash with plenty of water.  
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- **Additional information:**  
Contains isocyanates. May produce an allergic reaction.

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- **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	%
	aliphatic polyisocyanate, based on hexamethylene diisocyanate Skin Sens. 1, H317	20-30%
CAS: 28182-81-2 Reg.nr.: 01-2119485796-17-XXXX	aliphatic polyisocyanate, based on HDI Acute Tox. 4, H332; Skin Sens. 1, H317; STOT SE 3, H335 ATE: LC <sub>50</sub> /4 h inhalative: 11 mg/l	≥1-≤3%
CAS: 822-06-0 Reg.nr.: 01-2119457571-37-XXXX	hexamethylene-1,6-diisocyanate Acute Tox. 1, H330; Resp. Sens. 1, H334; Acute Tox. 4, H302; Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317; STOT SE 3, H335, EUH204 Specific concentration limits: Resp. Sens. 1; H334: C ≥ 0.5 % Skin Sens. 1; H317: C ≥ 0.5 %	<0.1%

- **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; consult doctor in case of complaints.
- **After skin contact:**  
Treat affected skin with cotton wool or cellulose. Then wash and rinse thoroughly with water and a mild cleaning agent.  
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.
- **4.2. Most important symptoms and effects, both acute and delayed**  
No further relevant information available.
- **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:**  
CO<sub>2</sub>, 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:

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Isocyanates  
 Nitrogen oxides (NO<sub>x</sub>)  
 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.
- **6.2. Environmental precautions:** No special measures required.
- **6.3. Methods and material for containment and cleaning up:** 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**  
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.  
Wear protective gloves/protective clothing/eye protection/face protection.  
Prevent formation of dust.  
Avoid contact with the skin.
- **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:** None.
- **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**
- 28182-81-2 aliphatic polyisocyanate, based on HDI**  
Inhalative DNEL short term 1 mg/m<sup>3</sup> (human being)  
DNEL long term 0.5 mg/m<sup>3</sup> (human being)
- 822-06-0 hexamethylene-1,6-diisocyanate**  
Inhalative DNEL short term 0.7 mg/m<sup>3</sup> (human being)  
DNEL long term 0.035 mg/m<sup>3</sup> (human being)

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· **PNECs****28182-81-2 aliphatic polyisocyanate, based on HDI**

PNEC- Freshwater	0.127 mg/l (not specified)
PNEC-seawater	0.0127 mg/l (not specified)
PNEC-Freshwater sediment	266,701 mg/kg (not specified)
PNEC-Seawater sediment	26,670 mg/kg (not specified)
PNEC-soil	53.2 mg/kg (not specified)
PNEC-wastewater treatment plant	38.28 mg/l (not specified)

**822-06-0 hexamethylene-1,6-diisocyanate**

PNEC- Freshwater	>0.05 mg/l (not specified)
PNEC-seawater	>0.005 mg/l (not specified)
PNEC-Freshwater sediment	>1.33 mg/kg (not specified)
PNEC-Seawater sediment	>0.133 mg/kg (not specified)
PNEC-soil	>0.066 mg/kg (not specified)
PNEC-wastewater treatment plant	8.42 mg/l (not specified)

· **Ingredients with biological limit values:****822-06-0 hexamethylene-1,6-diisocyanate**

BGW (Germany)	15 µg/g Kreatinin
	Untersuchungsmaterial: Urin
	Probennahmezeitpunkt: Expositionsende bzw. Schichtende
	Parameter: Hexamethylendiamin (nach Hydrolyse)

· **CAS No. Designation of material % Type Value Unit****822-06-0 hexamethylene-1,6-diisocyanate**

AGW (Germany)	Long-term value: 0.035 mg/m <sup>3</sup> , 0.005 ppm
	1;2=(I);DFG, 11, 12, Sa

· **8.2. Exposure controls**

limit the exposure to:  
8 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:** Filter A· **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

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- **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:** Weak, characteristic
- **Odour threshold:** Not determined.
- **Melting point/freezing point:** Undetermined.
- **Boiling point or initial boiling point and boiling range** 2,980 °C
- **Flammability** Not determined.
- **Lower and upper explosion limit**
- **Lower:** Not determined.
- **Upper:** Not determined.
- **Flash point:** Not applicable.
- **Auto-ignition temperature:** Not applicable.
- **Decomposition temperature:** 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:** Not applicable.
- **Density and/or relative density**
- **Density at 20 °C:** ca. 1.1 g/cm<sup>3</sup>
- **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

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· 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:** No dangerous decomposition products known.

### 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:**

**28182-81-2 aliphatic polyisocyanate, based on HDI**

Oral	LD <sub>50</sub>	>5,000 mg/kg (rat) weibliche Ratte >2500 mg/kg
Dermal	LD <sub>50</sub>	>2,000 mg/kg (rabbit) (OECD 402) >2,000 mg/kg (rat) (OECD 402)

Inhalative LC<sub>50</sub> /4 h 11 mg/l (ATE)

**822-06-0 hexamethylene-1,6-diisocyanate**

Oral	LD <sub>50</sub>	>2,000 mg/kg (rat)
Dermal	LD <sub>50</sub>	>7,000 mg/kg (rabbit)

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** May cause an allergic skin reaction.
- **Germ cell mutagenicity** Based on available data, the classification criteria are not met.
- **Carcinogenicity** Based on available data, the classification criteria are not met.

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- **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:**

#### 28182-81-2 aliphatic polyisocyanate, based on HDI

EC<sub>50</sub> >100 mg / l / 48h (water flea - daphnia)

- **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 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

- **14.1. UN number or ID number**
- **ADR, IMDG, IATA**

Void

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- 14.2. UN proper shipping name
  - DOT, ADR, IMDG, IATA
  - 14.3. Transport hazard class(es)
  - Class
  - 14.4. Packing group
  - ADR, IMDG, IATA
  - 14.5. Environmental hazards:
  - 14.6. Special precautions for user
  - 14.7. Maritime transport in bulk according to IMO instruments
- Void
- Void
- Void
- Not applicable.
- Not applicable.
- 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: 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.

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- H302 Harmful if swallowed.
- H315 Causes skin irritation.
- H317 May cause an allergic skin reaction.
- H319 Causes serious eye irritation.
- H330 Fatal if inhaled.
- H332 Harmful if inhaled.
- H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
- H335 May cause respiratory irritation.
- EUH204 Contains isocyanates. May produce an allergic reaction.

**· Department issuing SDS: Safety & Environment****· 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)
- 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. 1: Acute toxicity – Category 1
- 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
- STOT SE 3: Specific target organ toxicity (single exposure) – Category 3