

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

Printing date 19.12.2023

Version-No. 8 (replaces version 7)

Revision: 19.12.2023

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

- **1.1. Product identifier**
- Trade name / Article-No: **KLEIBERIT 802.0 ME**
- UFI: 2QNU-R0XK-8007-96RC
- **1.2. Relevant identified uses of the substance / mixture or uses advised against**
For professional users only.
- **Application of the substance / the mixture**
Hardening agent/ Curing agent

- **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**
Flam. Liq. 2 H225 Highly flammable liquid and vapour.
Eye Irrit. 2 H319 Causes serious eye irritation.
Skin Sens. 1 H317 May cause an allergic skin reaction.
STOT SE 3 H336 May cause drowsiness or dizziness.

- **2.2. Label elements**
- **Hazard pictograms**



GHS02 GHS07

- **Signal word** Danger
- **Hazard-determining components of labelling:**
aromatic polyisocyanate
Acetic ether
- **Hazard statements**
H225 Highly flammable liquid and vapour.
H319 Causes serious eye irritation.
H317 May cause an allergic skin reaction.
H336 May cause drowsiness or dizziness.

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- **Precautionary statements**

- P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
- P243 Take action to prevent static discharges.
- P261 Avoid breathing vapours.
- P280 Wear protective gloves / eye protection / face protection.
- P302+P352 IF ON SKIN: Wash with plenty of water and soap.
- 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:**

- EUH066 Repeated exposure may cause skin dryness or cracking.
- Contains isocyanates. May produce an allergic reaction.

- **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	%
CAS: 53317-61-6	aromatic polyisocyanate Eye Irrit. 2, H319; Skin Sens. 1, H317	70-80%
CAS: 141-78-6 Reg.nr.: 01-2119475103-46-XXXX	Acetic ether Flam. Liq. 2, H225; Eye Irrit. 2, H319; STOT SE 3, H336, EUH066	20-30%
CAS: 26471-62-5	2,4 / 2,6-toluene-diisocyanate (isomeres) 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 ≥ 5 % Eye Irrit. 2; H319: C ≥ 5 % Resp. Sens. 1; H334: C ≥ 0.1 % STOT SE 3; H335: C ≥ 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 and to be sure call for a doctor.
- In case of unconsciousness place patient stably in side position for transportation.
- Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.
- Take affected persons into fresh air and keep quiet.

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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. Then consult a doctor.**· After swallowing:** Call for a doctor immediately.**· 4.2. Most important symptoms and effects, both acute and delayed**

Headache

Drowsiness

Dizziness

Nausea

· 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.

· For safety reasons unsuitable extinguishing agents: Water with full jet**· 5.2. Special hazards arising from the substance or mixture** No further relevant information available.**· 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.

Particular danger of slipping on leaked/spilled product.

Keep away from ignition sources.

Use respiratory protective device against the effects of fumes/dust/aerosol.

· 6.2. Environmental precautions: Prevent seepage into sewage system, workpits and cellars.**· 6.3. Methods and material for containment and cleaning up:**

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

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.

Not less than 5 -15 air exchanges per hour

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.

Appropriate regular employee training.

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Spraying: in vented cabin with laminar air flow
 Wear protective gloves/protective clothing/eye protection/face protection.
 Store in cool, dry place in tightly closed receptacles.
 Wear suitable respiratory protective device when decanting larger quantities without extractor facilities.
 Application temperature is not higher than 20°C above the surrounding temperature
 Avoid contact with the skin.
 Use drum pumps or pour from the container carefully
 Avoid taking samples by immersion
 Do not allow to reach ground water, water bodies or sewage system.
 Open and handle receptacle with care.
 Clean the pipe before decoupling
 Close the container immediately after usage.

· **7.2. Conditions for safe storage, including any incompatibilities**

· **Storage:**

· **Requirements to be met by storerooms and receptacles:**

Store in a cool location.

Store outdoors.

Prevent any seepage into the ground.

· **Information about storage in one common storage facility:** Observe the national regulations.

· **Further information about storage conditions:** None.

· **Storage class:** 3A

· **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**

141-78-6 Acetic ether

Dermal DNEL long term 63 mg/kg (human being)

Inhalative DNEL short term 1,468 mg/m³ (human being)

DNEL long term 734 mg/m³ (human being)

26471-62-5 2,4 / 2,6-toluene-diisocyanate (isomers)

Inhalative DNEL short term 0.14 mg/m³ (human being)

DNEL long term 0.035 mg/m³ (human being)

· **PNECs**

141-78-6 Acetic ether

PNEC- Freshwater 0.26 mg/l (not specified)

PNEC-seawater 0.026 mg/l (not specified)

PNEC-periodic release 1.65 mg/l (not specified)

PNEC-Freshwater sediment 1.25 mg/kg (not specified)

PNEC-Seawater sediment 0.125 mg/kg (not specified)

PNEC-soil 0.148 mg/kg (not specified)

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PNEC-wastewater treatment plant 650 mg/l (not specified)

26471-62-5 2,4 / 2,6-toluene-diisocyanate (isomers)

PNEC- Freshwater 0.013 mg/l (not specified)
 PNEC-seawater 0.00125 mg/l (not specified)
 PNEC-soil >1 mg/kg (not specified)
 PNEC-wastewater treatment plant >1 mg/l (not specified)

CAS No.	Designation of material	%	Type	Value	Unit
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141-78-6 Acetic ether

IOELV (INT)	Short-term value: 1468 mg/m ³ , 400 ppm				
	Long-term value: 734 mg/m ³ , 200 ppm				
AGW (Germany)	Long-term value: 730 mg/m ³ , 200 ppm				
	2(l);DFG, EU, Y				

26471-62-5 2,4 / 2,6-toluene-diisocyanate (isomers)

MAK (Germany) vgl. Abschn.XII

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:** Do not inhale gases / fumes / aerosols.

- **Respiratory protection:**

Use suitable respiratory protective device in case of insufficient ventilation:

Filter A (DIN EN 14 387)

- **Hand protection** Protective gloves

- **Material of gloves** A Nitrile rubber - NBR: AlphaTec® (> 0,4 mm)

- **Eye/face protection** Safety glasses

- **Body protection:** Protective work clothing

- **Environmental exposure controls**

The floor surface in the facility has to be sealed.

Waste air is to be released into the atmosphere only via suitable separators.

SECTION 9: Physical and chemical properties

- **9.1. Information on basic physical and chemical properties**

- **General Information**

- **Physical state**

Fluid

- **Colour:**

Colourless

- **Odour:**

Fruit-like

- **Odour threshold:**

Not determined.

- **Melting point/freezing point:**

Undetermined.

- **Boiling point or initial boiling point and boiling range**

75 °C

- **Flammability**

Highly flammable.

- **Lower and upper explosion limit**

- **Lower:**

2.1 Vol %

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· Upper:	11.5 Vol %
· Flash point:	5 °C
· Auto-ignition temperature:	>500 °C
	>500 °C
· Decomposition temperature:	Not determined.
· pH	Not determined.
· Viscosity:	
· Kinematic viscosity	Not determined.
· Dynamic at 20 °C:	ca. 2.000 mPas
· Solubility	
· water:	Not miscible or difficult to mix.
· Partition coefficient n-octanol/water (log value)	Not determined.
· Vapour pressure at 20 °C:	97 hPa
· Density and/or relative density	
· Density at 20 °C:	ca. 1.17 g/cm ³
· Relative density	Not determined.
· Vapour density	Not determined.
· 9.2. Other information	
· Appearance:	
· Form:	Fluid
· Important information on protection of health and environment, and on safety.	
· Ignition temperature:	Product is not selfigniting.
· Explosive properties:	Product is not explosive. However, formation of explosive air/vapour mixtures are possible.
· Change in condition	
· Evaporation rate	Not determined.
· Information with regard to physical hazard classes	
· Explosives	Void
· Flammable gases	Void
· Aerosols	Void
· Oxidising gases	Void
· Gases under pressure	Void
· Flammable liquids	Highly flammable liquid and vapour.
· 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

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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/LC₅₀ values relevant for classification:**
Inhalative LC₅₀/4h_(dust,mist) >1 mg/l (not specified) (Calculation (ATE))
- 53317-61-6 aromatic polyisocyanate**
Oral LD₅₀ >2,000 mg/kg (rat)
- 141-78-6 Acetic ether**
Oral LD₅₀ 4,934 mg/kg (rabbit)
Methode: OECD 401
Dermal LD₅₀ >20,000 mg/kg (rabbit)
Inhalative LC₅₀ /4 h 29.3 mg/l (rat)
- 26471-62-5 2,4 / 2,6-toluene-diisocyanate (isomeres)**
Oral LD₅₀ 5,110 mg/kg (rat)
Dermal LD₅₀ >9,400 mg/kg (rabbit)
Inhalative LC₅₀ /4 h 0.107 mg/l (rat)
- **Skin corrosion/irritation** Based on available data, the classification criteria are not met.
- **Serious eye damage/irritation** Causes serious eye irritation.
- **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.
- **Reproductive toxicity** Based on available data, the classification criteria are not met.
- **STOT-single exposure** May cause drowsiness or dizziness.
- **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.

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SECTION 12: Ecological information· **12.1. Toxicity**· **Aquatic toxicity:****141-78-6 Acetic ether**LC₅₀ 230 mg / l / 96h (fish)EC₅₀ 5,600 mg / l / 48h (algae)

610 mg / l / 48h (water flea - daphnia) (DIN 38412)

26471-62-5 2,4 / 2,6-toluene-diisocyanate (isomeres)LC₅₀ 133 mg / l / 96h (Fathead minnow - Pimephales promelas)EC₅₀ 12.5 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. Must be specially treated adhering to official regulations.

· **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.

SECTION 14: Transport information· **14.1. UN number or ID number**· **ADR, IMDG, IATA**

UN1866

· **14.2. UN proper shipping name**· **DOT**

Resin solution

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· ADR	1866 RESIN SOLUTION
· IMDG, IATA	RESIN SOLUTION
· 14.3. Transport hazard class(es)	
· Class	3 Flammable liquids.
· Label	3
· 14.4. Packing group	
· ADR, IMDG, IATA	II
· 14.5. Environmental hazards:	Not applicable.
· 14.6. Special precautions for user	Warning: Flammable liquids.
· Hazard identification number (Kemler code):	30
· EMS Number:	F-E,S-D
· Stowage Category	B
· 14.7. Maritime transport in bulk according to IMO instruments	Not applicable.
<hr/>	
· ADR	
· Limited quantities (LQ)	5L
· Excepted quantities (EQ)	Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
· Transport category	3
· Tunnel restriction code	D/E
<hr/>	
· IMDG	
· Limited quantities (LQ)	5L
· Excepted quantities (EQ)	Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml

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.
- **Seveso category**
H2 ACUTE TOXIC
P5c FLAMMABLE LIQUIDS
- **Qualifying quantity (tonnes) for the application of lower-tier requirements** 50 t
- **Qualifying quantity (tonnes) for the application of upper-tier requirements** 200 t
- **Regulation (EC) No 1907/2006 - REACH, ANNEX XVII** Conditions of restriction: 3, 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.

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- **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.
- **VOC - 2010/75/EU [g/L]:** <300.0 g/l
- **VOC - 2010/75/EU [%]:** ≤25.00 %
- **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**
 - H225 Highly flammable liquid and vapour.
 - 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.
 - H336 May cause drowsiness or dizziness.
 - H351 Suspected of causing cancer.
 - H373 May cause damage to organs through prolonged or repeated exposure.
 - EUH066 Repeated exposure may cause skin dryness or cracking.
 - EUH204 Contains isocyanates. May produce an allergic reaction.
- **Department issuing SDS:** Safety & Environment
- **Version number of previous version:** 7
- **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)

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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
Flam. Liq. 2: Flammable liquids – Category 2
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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