

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

Printing date 21.07.2022



Version-No. 9 (replaces version 8)

Revision: 19.07.2022

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

- **1.1. Product identifier**
- Trade name / Article-No: **KLEIBERIT 848.1**
- UFI: UEH0-U0KW-H00H-58YF
- **1.2. Relevant identified uses of the substance / mixture or uses advised against**
For professional use only
- Application of the substance / the mixture Priming
- **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**
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:**
2-butanone
maleic anhydride
- **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.
- 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.

2.3. Other hazards

Results of PBT and vPvB assessment

• **PBT:** Not applicable.

• **vPvB:** Not applicable.

Determination of endocrine-disrupting properties

78-93-3 2-butanone: List II

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: 78-93-3 Reg.nr.: 02-2119752535-35-XXXX 01-2119457290-43-XXXX	2-butanone Flam. Liq. 2, H225; Eye Irrit. 2, H319; STOT SE 3, H336, EUH066	80-90%
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	≥5-<10%
CAS: 108-31-6	maleic anhydride Resp. Sens. 1, H334; STOT RE 1, H372; Skin Corr. 1B, H314; Eye Dam. 1, H318; Acute Tox. 4, H302; Skin Sens. 1A, H317, EUH071 Specific concentration limit: Skin Sens. 1A; H317: C ≥ 0.001 %	≥0.001-<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. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.

In case of unconsciousness place patient stably in side position for transportation.

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Trade name / Article-No: KLEIBERIT 848.1*(Contd. of page 2)***· 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. 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.

· 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).

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.

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.

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.

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Wear suitable respiratory protective device when decanting larger quantities without extractor facilities.

Application temperature is not higher than 20°C above the surrounding temperature

Conduct spray applications in a ventilated booth or in an exhausted enclosure. Or as an alternative, ensure an adequate level of controlled ventilation (10 to 15 air changes per hour) and wear a respiratory protective device according to EN140 with filter type A or better.

Use drum pumps or pour from the container carefully

Avoid taking samples by immersion

additional to professional application with multiple and/or significant contact

limit the exposure to 4 hours

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.

· **General protective and hygienic measures:** Keep good industrial hygiene.

· **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:** Store only outside or in explosion proof rooms.

· **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**

78-93-3 2-butanone

Dermal DNEL long term 1,161 mg/kg (human being)

Inhalative DNEL long term 600 mg/m³ (human being)

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)

108-31-6 maleic anhydride

Inhalative DNEL long term 0.4 mg/m³ (human being)

· **PNECs**

78-93-3 2-butanone

PNEC- Freshwater 55.8 mg/l (not specified)

PNEC-seawater 55.8 mg/l (not specified)

PNEC-Freshwater sediment 284.7 mg/kg (not specified)

PNEC-Seawater sediment 284.7 mg/kg (not specified)

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PNEC-soil 22.5 mg/kg (not specified)
 PNEC-wastewater treatment plant 709 mg/l (not specified)

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

108-31-6 maleic anhydride

PNEC- Freshwater 0.1 mg/l (not specified)
 PNEC-seawater 0.01 mg/l (not specified)
 PNEC-Freshwater sediment 0.334 mg/kg (not specified)
 PNEC-Seawater sediment 0.033 mg/kg (not specified)
 PNEC-soil 0.042 mg/kg (not specified)
 PNEC-wastewater treatment plant 44.6 mg/l (not specified)

Ingredients with biological limit values:**78-93-3 2-butanone**

BGW (Germany) 2 mg/l
 Untersuchungsmaterial: Urin
 Probennahmezeitpunkt: Expositionsende bzw. Schichtende
 Parameter: 2-Butanon

CAS No.	Designation of material	%	Type	Value	Unit
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78-93-3 2-butanone

IOELV (INT)	Short-term value: 900 mg/m ³ , 300 ppm Long-term value: 600 mg/m ³ , 200 ppm				
AGW (Germany)	Long-term value: 600 mg/m ³ , 200 ppm 1(I);DFG, EU, H, Y				

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(I);DFG, EU, Y				

108-31-6 maleic anhydride

AGW (Germany)	Long-term value: 0.081 mg/m ³ , 0.02 ppm 1;=2.5=(I);DFG, Sah, Y, 11				
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8.2. Exposure controls

limit the exposure to:
8 hours

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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 (DIN EN 14 387)
At spray application respiratory protection must be worn.
- **Hand protection** Protective gloves
- **Material of gloves B** Polyethylenlylon: Barrier™ (0,062 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** 76 °C
- **Flammability** Highly flammable.
- **Lower and upper explosion limit**
- **Lower:** 1.8 Vol %
- **Upper:** 11.5 Vol %
- **Flash point:** -4 °C
- **Ignition temperature:** 460 °C
- **Decomposition temperature:** Not determined.
- **pH** Not determined.
- **Viscosity:**
- **Kinematic viscosity** Not determined.
- **Dynamic at 20 °C:** ca. 10 mPas
- **Solubility**
- **water:** Not miscible or difficult to mix.
- **Partition coefficient n-octanol/water (log value)** Not determined.
- **Vapour pressure at 20 °C:** 105 hPa
- **Density and/or relative density**
- **Density at 20 °C:** ca. 0.8 g/cm³
- **Relative density** Not determined.
- **Vapour density** Not determined.

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· 9.2. Other information

· Appearance:

· Form:

Fluid

· Important information on protection of health and environment, and on safety.

· Auto-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

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:

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Oral LD₅₀ >2,193 mg/kg (rat)

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Dermal LD₅₀ >5,000 mg/kg (rbt)Inhalative LC₅₀ /4 h 34 mg/l (rat)LC₅₀ /4 h >5,000 ppm (rat)**141-78-6 Acetic ether**Oral LD₅₀ 4,934 mg/kg (rabbit)
Methode: OECD 401Dermal LD₅₀ >20,000 mg/kg (rabbit)Inhalative LC₅₀ /4 h 29.3 mg/l (rat)**108-31-6 maleic anhydride**Oral LD₅₀ 1,090 mg/kg (rat)Dermal LD₅₀ 2,620 mg/kg (rabbit)

- **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**

78-93-3 2-butanone: List II

SECTION 12: Ecological information

- **12.1. Toxicity**
- **Aquatic toxicity:**

78-93-3 2-butanoneLC₅₀ 2,990 mg / l / 96h (Fathead minnow - Pimephales promelas)EC₅₀ 308 mg / l / 48h (water flea - daphnia)EC₅₀ 1,972 mg / l / 72h (green algae-Ps.kirchneriella subcapitata)**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)

- **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** For information on endocrine disrupting properties see section 11.

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- **12.6. 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:**
Not known to be hazardous to water.
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**
07 03 04* other organic solvents, washing liquids and mother liquors
- **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 | UN1993 |
| · ADR, IMDG, IATA | UN1993 |
| · 14.2. UN proper shipping name | |
| · DOT | Flammable liquids, n.o.s. (METHYL ETHYL KETONE, ETHYL ACETATE) |
| · ADR | 1993 FLAMMABLE LIQUID, N.O.S. (METHYL ETHYL KETONE, ETHYL ACETATE) |
| · IMDG, IATA | FLAMMABLE LIQUID, N.O.S. (METHYL ETHYL KETONE, ETHYL ACETATE) |
| · 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): | 33 |
| · EMS Number: | F-E,S-D |
| · Stowage Category | B |
| · 14.7. Maritime transport in bulk according to IMO instruments | Not applicable. |
| · ADR | |
| · Limited quantities (LQ) | 1L |

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<ul style="list-style-type: none"> · Excepted quantities (EQ) · Transport category · Tunnel restriction code 	Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml 2 D/E
<ul style="list-style-type: none"> · IMDG · Limited quantities (LQ) · Excepted quantities (EQ) 	1L 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** P5c FLAMMABLE LIQUIDS
- **Qualifying quantity (tonnes) for the application of lower-tier requirements** 5.000 t
- **Qualifying quantity (tonnes) for the application of upper-tier requirements** 50.000 t
- **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.
- **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**

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- **Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors**

78-93-3 2-butanone: 3
- **National regulations:**
- **D: Waterhazard class** Water hazard class 1 (Self-assessment): slightly hazardous for water.
- **Other regulations, limitations and prohibitive regulations:** Restricted to professional users.
- **VOC - 2010/75/EU [g/L]:** <800.0 g/l
- **VOC - 2010/75/EU [%]:** <99.00 %

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· **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.
 H302 Harmful if swallowed.
 H314 Causes severe skin burns and eye damage.
 H317 May cause an allergic skin reaction.
 H318 Causes serious eye damage.
 H319 Causes serious eye irritation.
 H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
 H336 May cause drowsiness or dizziness.
 H372 Causes damage to organs through prolonged or repeated exposure.
 EUH066 Repeated exposure may cause skin dryness or cracking.
 EUH071 Corrosive to the respiratory tract.

· **Department issuing SDS:** Safety & Environment

· **Version number of previous version:** 8

· **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
 Flam. Liq. 2: Flammable liquids – Category 2
 Acute Tox. 4: Acute toxicity – Category 4
 Skin Corr. 1B: Skin corrosion/irritation – Category 1B
 Eye Dam. 1: Serious eye damage/eye irritation – Category 1
 Eye Irrit. 2: Serious eye damage/eye irritation – Category 2
 Resp. Sens. 1: Respiratory sensitisation – Category 1
 Skin Sens. 1: Skin sensitisation – Category 1
 Skin Sens. 1A: Skin sensitisation – Category 1A
 STOT SE 3: Specific target organ toxicity (single exposure) – Category 3
 STOT RE 1: Specific target organ toxicity (repeated exposure) – Category 1