

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

Printing date 12.10.2023


Version-No. 9 (replaces version 8)

Revision: 22.02.2022

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

- **1.1. Product identifier**
- **Trade name / Article-No: KLEIBERIT 320.0**
- **UFI: TX82-70W0-000S-720E**
- **1.2. Relevant identified uses of the substance / mixture or uses advised against**
No further relevant information available.
- **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)

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.
Aquatic Chronic 3 H412 Harmful to aquatic life with long lasting effects.
- **2.2. Label elements**
- **Hazard pictograms**

GHS07
- **Signal word** Warning
- **Hazard-determining components of labelling:**
a mixture of: 5-chloro-2-methyl-2 H -isothiazol-3-one [EC No 247-500-7] and 2-methyl-2 H -isothiazol-3-one [EC No 220-239-6] (3:1)
1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one
- **Hazard statements**
H317 May cause an allergic skin reaction.
H412 Harmful to aquatic life with long lasting effects.
- **Precautionary statements**
P273 Avoid release to the environment.
P280 Wear protective gloves / eye protection.
P302+P352 IF ON SKIN: Wash with plenty of water and soap.
P362+P364 Take off contaminated clothing and wash it before reuse.
P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
P321 Specific treatment (see on this label).

(Contd. on page 2)

EU

Safety data sheet

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

Printing date 12.10.2023

Version-No. 9 (replaces version 8)

Revision: 22.02.2022

Trade name / Article-No: **KLEIBERIT 320.0**

(Contd. of page 1)

- **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: 7397-62-8 Reg.nr.: 01-2119514685-36-XXXX | butyl glycollate Repr. 2, H361; Eye Dam. 1, H318 | <1% |
| CAS: 2634-33-5 Reg.nr.: 01-2120761540-60-XXXX | 1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one Eye Dam. 1, H318; Aquatic Acute 1, H400; Aquatic Chronic 2, H411; Acute Tox. 4, H302; Skin Irrit. 2, H315; Skin Sens. 1, H317 Specific concentration limit: Skin Sens. 1; H317: C ≥ 0.05 % | <0.05% |
| CAS: 55965-84-9 | a mixture of: 5-chloro-2-methyl-2 H -isothiazol-3-one [EC No 247-500-7] and 2-methyl-2 H -isothiazol-3-one [EC No 220-239-6] (3:1) Acute Tox. 3, H301; Acute Tox. 2, H310; Acute Tox. 2, H330; Skin Corr. 1C, H314; Eye Dam. 1, H318; Aquatic Acute 1, H400 (M=100); Aquatic Chronic 1, H410 (M=100); Skin Sens. 1A, H317, EUH071 Specific concentration limits: Skin Corr. 1C; H314: C ≥ 0.6 % Skin Irrit. 2; H315: 0.06 % ≤ C < 0.6 % Eye Dam. 1; H318: C ≥ 0.6 % Eye Irrit. 2; H319: 0.06 % ≤ C < 0.6 % Skin Sens. 1A; H317: C ≥ 0.0015 % | 0.01% |

- **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:** Generally the product does not irritate the skin.
- **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:**
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:
Ethanoic acid

(Contd. on page 3)

Safety data sheet

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

Printing date 12.10.2023

Version-No. 9 (replaces version 8)

Revision: 22.02.2022

Trade name / Article-No: KLEIBERIT **320.0**

(Contd. of page 2)

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

Particular danger of slipping on leaked/spilled product.

6.2. Environmental precautions: Do not allow to enter surface or ground water.

6.3. Methods and material for containment and cleaning up:

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

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 No special precautions are necessary if used correctly.

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

7397-62-8 butyl glycollate

Dermal DNEL long term 34.7 mg/kg (human being)

Inhalative DNEL long term 21.2 mg/m³ (human being)

PNECs

7397-62-8 butyl glycollate

PNEC- Freshwater 0.05 mg/l (not specified)

PNEC-Freshwater sediment 0.203 mg/kg (not specified)

PNEC-soil 0.0112 mg/kg (not specified)

PNEC-wastewater treatment plant 232 mg/l (not specified)

2634-33-5 1,2-benzisothiazol-3(2H)-one;1,2-benzisothiazolin-3-one

PNEC- Freshwater 0.00403 mg/l (not specified)

PNEC-seawater 0.000403 mg/l (not specified)

PNEC-Freshwater sediment 0.0499 mg/kg (not specified)

PNEC-Seawater sediment 0.00499 mg/kg (not specified)

PNEC-soil 3 mg/kg (not specified)

PNEC-wastewater treatment plant 1.03 mg/l (not specified)

55965-84-9 a mixture of: 5-chloro-2-methyl-2 H -isothiazol-3-one [EC No 247-500-7] and 2-methyl-2 H -isothiazol-3-one [EC No 220-239-6] (3:1)

PNEC- Freshwater 0.00339 mg/l (not specified)

(Contd. on page 4)

Safety data sheet

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

Printing date 12.10.2023

Version-No. 9 (replaces version 8)

Revision: 22.02.2022

Trade name / Article-No: KLEIBERIT 320.0

(Contd. of page 3)

| | |
|---------------------------------|------------------------------|
| PNEC-seawater | 0.00339 mg/l (not specified) |
| PNEC-Freshwater sediment | 0.027 mg/kg (not specified) |
| PNEC-Seawater sediment | 0.027 mg/kg (not specified) |
| PNEC-soil | 0.01 mg/kg (not specified) |
| PNEC-wastewater treatment plant | 0.027 mg/l (not specified) |

| CAS No. | Designation of material | % | Type | Value | Unit |
|---------|-------------------------|---|------|-------|------|
|---------|-------------------------|---|------|-------|------|

7397-62-8 butyl glycolate

MAK (Germany) vgl.Abschn.IIb

2634-33-5 1,2-benzisothiazol-3(2H)-one;1,2-benzisothiazolin-3-one

MAK (Germany) vgl.Abschn.IIb und Xc

55965-84-9 a mixture of: 5-chloro-2-methyl-2 H -isothiazol-3-one [EC No 247-500-7] and 2-methyl-2 H -isothiazol-3-one [EC No 220-239-6] (3:1)MAK (Germany) Long-term value: 0.2E mg/m³
vgl.Abschn.Xc**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:** Not necessary if room is well-ventilated.· **Hand protection** Protective gloves· **Material of gloves** Synthetic rubber gloves· **Eye/face protection** Safety glasses· **Body protection:** Protective work clothing**SECTION 9: Physical and chemical properties****9.1. Information on basic physical and chemical properties****General Information****Physical state**

Fluid

Colour:

Beige

Odour:

Characteristic

Odour threshold:

Not determined.

Melting point/freezing point:

Undetermined.

Boiling point or initial boiling point and boiling range

100 °C

Flammability

Not applicable.

Lower and upper explosion limit**Lower:**

Not determined.

Upper:

Not determined.

Flash point:

Not applicable.

Auto-ignition temperature:

374 °C

Decomposition temperature:

Not determined.

pH at 20 °C

ca. 7

Viscosity:**Kinematic viscosity**

Not determined.

Dynamic at 20 °C:ca. 15.000 mPas
Brookfield (6 / 20 rpm)

(Contd. on page 5)

Safety data sheet

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

Printing date 12.10.2023

Version-No. 9 (replaces version 8)

Revision: 22.02.2022

Trade name / Article-No: KLEIBERIT **320.0**

(Contd. of page 4)

| | |
|--|---|
| · Solubility | |
| · water: | Fully miscible. |
| · Partition coefficient n-octanol/water (log value) | Not determined. |
| · Vapour pressure at 20 °C: | 23 hPa |
| · Density and/or relative density | |
| · Density at 20 °C: | ca. 1.25 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 does not present an explosion hazard. |
| · 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 | 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:** Ethanoic acid

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.

(Contd. on page 6)

Safety data sheet

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

Printing date 12.10.2023

Version-No. 9 (replaces version 8)

Revision: 22.02.2022

Trade name / Article-No: KLEIBERIT 320.0*(Contd. of page 5)*

· **LD/LC₅₀ values relevant for classification:**

7397-62-8 butyl glycollate

Oral LD₅₀ 4,595 mg/kg (rat)

2634-33-5 1,2-benzisothiazol-3(2H)-one;1,2-benzisothiazolin-3-one

Oral LD₅₀ >1,150 mg/kg (mouse)

1,020 mg/kg (rat)

Dermal LD₅₀ >2,000 mg/kg (mouse)

4,115 mg/kg (rat)

55965-84-9 a mixture of: 5-chloro-2-methyl-2 H -isothiazol-3-one [EC No 247-500-7] and 2-methyl-2 H -isothiazol-3-one [EC No 220-239-6] (3:1)

Oral LD₅₀ 457 mg/kg (rat)

Dermal LD₅₀ 141 mg/kg (rabbit)

Inhalative LC₅₀ /4 h 0.33 mg/l (rat)

· **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**

The use of preservatives in this product is necessary.

There are known cases of existing sensitization to these substances and allergic reactions may be possible in case of skin contact.

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** 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.

· **Additional toxicological information:**

· **Reproductive toxicity**

7397-62-8 butyl glycollate

Oral NOAEL - No Observed Adverse Effect Level 250 mg/kg bw/day (rat) (OECD 414)

· **11.2 Information on other hazards**

· **Endocrine disrupting properties**

None of the ingredients is listed.

SECTION 12: Ecological information

· **12.1. Toxicity**

· **Aquatic toxicity:**

7397-62-8 butyl glycollate

LC₀ 50 g/l (48 h) (gold orf w - Leuciscus idus)

EC₅₀ 280 mg / l / 24h (water flea - daphnia)

2634-33-5 1,2-benzisothiazol-3(2H)-one;1,2-benzisothiazolin-3-one

LC₅₀ 1.3 mg / l / 96h (Fathead minnow - Pimephales promelas)

LC₅₀ 2.94 mg / l / 48h (water flea - daphnia)

EC₅₀ 3.7 mg / l / 48h (water flea - daphnia)

EC₅₀ 0.37 mg / l / 72h (green algae-Ps.kirchneriella subcapitata)

(Contd. on page 7)

Safety data sheet

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

Printing date 12.10.2023

Version-No. 9 (replaces version 8)

Revision: 22.02.2022

Trade name / Article-No: KLEIBERIT **320.0**

(Contd. of page 6)

55965-84-9 a mixture of: 5-chloro-2-methyl-2 H -isothiazol-3-one [EC No 247-500-7] and 2-methyl-2 H -isothiazol-3-one [EC No 220-239-6] (3:1)

LC₅₀ 0.19 mg / l / 96h (Fathead minnow - Pimephales promelas)

0.19 mg / l / 96h (fish)

EC₅₀ 0.16 mg / l / 48h (water flea - daphnia)

EC₅₀ 0.018 mg / l / 72h (green algae-Ps.kirchneriella subcapitata)

· **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 2 (German Regulation) (Self-assessment): hazardous for water

Danger to drinking water if even small quantities leak into the ground.

Do not allow product to reach sewage system or any water course.

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 09*: waste adhesives and sealants containing organic solvents or other dangerous substances

· **Uncleaned packaging:**

· **Recommendation:**

Non contaminated packagings may be recycled.

Empty contaminated packagings thoroughly. Disposal must be made according to official regulations.

· **Recommended cleansing agents:** Water, if necessary together with cleansing agents.

SECTION 14: Transport information

· **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)**

· **Class**

Void

· **14.4. Packing group**

· **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 IMO instruments**

Not applicable.

(Contd. on page 8)

Safety data sheet

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

Printing date 12.10.2023

Version-No. 9 (replaces version 8)

Revision: 22.02.2022

Trade name / Article-No: **KLEIBERIT 320.0**

(Contd. of page 7)

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.

- **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 2 (Self-assessment): hazardous for water.

- **National Regulations (others than Germany or EU)**

- **French Regulation (Decree No. 2011-321):** class A

- **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**

H301 Toxic if swallowed.
 H302 Harmful if swallowed.
 H310 Fatal in contact with skin.
 H314 Causes severe skin burns and eye damage.
 H315 Causes skin irritation.
 H317 May cause an allergic skin reaction.
 H318 Causes serious eye damage.
 H330 Fatal if inhaled.
 H361 Suspected of damaging fertility or the unborn child.
 H400 Very toxic to aquatic life.
 H410 Very toxic to aquatic life with long lasting effects.
 H411 Toxic to aquatic life with long lasting effects.
 EUH071 Corrosive to the respiratory tract.

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

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

(Contd. on page 9)

Safety data sheet

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

Printing date 12.10.2023

Version-No. 9 (replaces version 8)

Revision: 22.02.2022

Trade name / Article-No: KLEIBERIT 320.0*(Contd. of page 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
 Acute Tox. 3: Acute toxicity – Category 3
 Acute Tox. 4: Acute toxicity – Category 4
 Acute Tox. 2: Acute toxicity – Category 2
 Skin Corr. 1C: Skin corrosion/irritation – Category 1C
 Skin Irrit. 2: Skin corrosion/irritation – Category 2
 Eye Dam. 1: Serious eye damage/eye irritation – Category 1
 Skin Sens. 1: Skin sensitisation – Category 1
 Skin Sens. 1A: Skin sensitisation – Category 1A
 Repr. 2: Reproductive toxicity – Category 2
 Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1
 Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1
 Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2
 Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3

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