



## Safety data sheet

### according to 1907/2006/EC, Article 31

Printing date 13.11.2020

Version-No. 1

Revision: 13.11.2020

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

- **1.1. Product identifier**
- Trade name / Article-No: **KLEIBERIT 471.0**
- **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:**  
KLEBCHEMIE  
M.G. Becker GmbH & Co. KG  
Max-Becker-Str. 4  
D - 76356 Weingarten / Baden  
Germany
- **Further information obtainable from:**  
phone: +49-7244-62-0  
FAX: +49-7244-700-0  
e-mail: hse@kleiberit.com
- **1.4. Emergency telephone number:**  
**+44 1235 239670**  
European regional number (European languages)  
**+44 1235 239671**  
Middle Eastern/African regional number (Middle Eastern/African languages)  
**+1 215 207 0061**  
Americas regional number (English, Spanish, Portuguese)  
**+65 3158 1412**  
Asia Pacific regional number (English, Bahasa, Malaysia, Hindi, Japanese, Korean, Mandarin, Tagalog)

#### SECTION 2: Hazards identification

- **2.1. Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008 - GHS/CLP**  
The product is not classified as hazardous to health or environment according to the CLP regulation.
- **2.2. Label elements**
- **Hazard pictograms** Void
- **Signal word** Void
- **Hazard statements** Void
- **Additional information:**  
Contains 1,2-Benzisothiazol-3(2H)-on. May produce an allergic reaction.  
Contains 5-chloro-2-methyl-4-isothiazolin-3-one and 2-methyl-4-isothiazolin-3-one (mixture in a ratio 3:1). May produce an allergic reaction.  
Safety data sheet available on request.
- **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:** Synthetic polymer emulsion of polyvinylacetate in water

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· **Dangerous components:**

| Registry-No's                                    | Identification / Classification GHS-CLP  | %        |
|--|--|----------|
| CAS: 2634-33-5<br>Reg.nr.: 05-2114263215-55-XXXX | 1,2-benzisothiazol-3(2H)-one;1,2-benzisothiazolin-3-one<br>Eye Dam. 1, H318; Aquatic Acute 1, H400; Aquatic Chronic 2, H411; Acute Tox. 4, H302; Skin Irrit. 2, H315; Skin Sens. 1, H317   | <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)<br>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 | <0.0015% |

· **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:**  
Rinse with warm water.  
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:**  
Rinse out mouth with plenty of water.  
Call for a doctor immediately.
- **Information for doctor:**
- **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.  
Use fire extinguishing methods suitable to surrounding conditions.
- **5.2. Special hazards arising from the substance or mixture**  
In case of fire, the following can be released:  
Ethanoic acid
- **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:** Dilute with plenty of 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.

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See Section 13 for disposal information.

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### SECTION 7: Handling and storage

- **Handling:**
- **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

- **Additional information about design of technical facilities:** No further data; see item 7.

- **8.1. Control parameters**

- **Ingredients with limit values that require monitoring at the workplace:**

- **PNECs**

**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) |
| 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)   |

- **8.2. Exposure controls**

limit the exposure to:  
8 hours

- **Personal protective equipment:**

- **General protective and hygienic measures:**

The usual precautionary measures are to be adhered to when handling chemicals.

- **Respiratory protection:** Not required.
- **Protection of hands:** Protective gloves
- **Material of gloves** Synthetic rubber gloves
- **Eye protection:** Safety glasses
- **Body protection:** Protective work clothing

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## SECTION 9: Physical and chemical properties

### · 9.1. Information on basic physical and chemical properties

#### · General Information

#### · Appearance:

- Form: Fluid
- Colour: White
- Odour: Characteristic
- Odour threshold: Not determined.
- pH-value at 20 °C: ca. 5

#### · Change in condition

- Melting point/freezing point: Undetermined.
- Initial boiling point and boiling range: 100 °C

- Flash point: Not applicable.

- Flammability (solid, gas): Not applicable.

- Ignition temperature: Not applicable.

- Decomposition temperature: Not determined.

- Auto-ignition temperature: Product is not selfigniting.

- Explosive properties: Product does not present an explosion hazard.

#### · Explosion limits:

- Lower: Not determined.
- Upper: Not determined.

- Vapour pressure at 20 °C: 23 hPa

- Density at 20 °C: ca. 1.11 g/cm<sup>3</sup>
- Relative density: Not determined.
- Vapour density: Not determined.
- Evaporation rate: Not determined.

#### · Solubility in / Miscibility with

- water: Fully miscible.

- Partition coefficient: n-octanol/water: Not determined.

#### · Viscosity:

- Dynamic at 20 °C: ca. 3.000 mPas  
Brookfield (6 / 20 rpm)

- Kinematic: Not determined.

- 9.2. Other information: No further relevant information available.

## 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

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### SECTION 11: Toxicological information

- **11.1. Information on toxicological effects**
- **Acute toxicity** Based on available data, the classification criteria are not met.
- **LD/LC<sub>50</sub> values relevant for classification:**

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

Oral LD<sub>50</sub> >1,150 mg/kg (mouse)  
1,020 mg/kg (rat)

Dermal LD<sub>50</sub> >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 LD<sub>50</sub> 457 mg/kg (rat)

Dermal LD<sub>50</sub> 141 mg/kg (rabbit)

Inhalative LC<sub>50</sub> /4 h 0.33 mg/l (rat)

- **Primary irritant effect:**
- **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 cases known about existing sensitizations against these substances and at skin contact allergic reactions can be possible.
- **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.

### SECTION 12: Ecological information

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

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

LC<sub>50</sub> 1.3 mg / l / 96h (Fathead minnow - Pimephales promelas)

LC<sub>50</sub> 2.94 mg / l / 48h (water flea - daphnia)

EC<sub>50</sub> 3.7 mg / l / 48h (water flea - daphnia)

EC<sub>50</sub> 0.37 mg / l / 72h (green algae-Ps.kirchneriella subcapitata)

#### 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)

LC<sub>50</sub> 0.19 mg / l / 96h (Fathead minnow - Pimephales promelas)

0.19 mg / l / 96h (fish)

EC<sub>50</sub> 0.16 mg / l / 48h (water flea - daphnia)

EC<sub>50</sub> 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.
- **Additional ecological information:**

· **General notes:** Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water

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- **12.5. Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **12.6. Other adverse effects** No further relevant information available.

### SECTION 13: Disposal considerations

- **13.1. Waste treatment methods**
- **Recommendation** Can be disposed of with household garbage in small quantities after curing.
- **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.
- **Recommended cleansing agents:** Water, if necessary together with cleansing agents.

### SECTION 14: Transport information

- **14.1. UN-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. Transport in bulk according to Annex II of Marpol and the IBC Code** 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.
- **National regulations:**
- **D: Waterhazard class** Water hazard class 1 (Self-assessment): slightly hazardous for water.
- **EU: VOC - Volatile Organic Compounds (Directive 13/1999/EC)**
- **VOC - 2010/75/EU [g/L]:** 0.0 g/l
- **VOC - 2010/75/EU [%]:** 0.00 %
- **15.2. Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

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### 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.  
 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.

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

- **Abbreviations and acronyms:**

ADR: Accord européen sur le transport 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)  
 MAL-Code: Måleteknisk Arbejdshygienisk Luftbehov (Regulation for the labeling concerning inhalation hazards, Denmark)  
 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 - oral – Category 3  
 Acute Tox. 4: Acute toxicity - oral – Category 4  
 Acute Tox. 2: Acute toxicity - dermal – 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  
 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

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