

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

Printing date 01.04.2025

Version-No. 4.0 (replaces version 3.0)

Revision: 23.01.2025

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

- **1.1. Product identifier**
- **Trade name / Article-No: KLEIBERIT 473.0**
- **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:**  
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**  
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.
- **Determination of endocrine-disrupting properties** Not applicable.

**SECTION 3: Composition/information on ingredients**

- **3.2. Mixtures**
- **Description:** Mixture of substances listed below with nonhazardous additions.

(Contd. on page 2)

EU

# Safety data sheet

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Revision: 23.01.2025

**Trade name / Article-No: KLEIBERIT 473.0**

(Contd. of page 1)

**· Dangerous components:**

<b>Registry-No's</b>	<b>Identification / Classification GHS-CLP</b>	<b>%</b>
CAS: 9003-01-4	Acrylic Acid, homopolymer substance with a Community workplace exposure limit	10-20%
CAS: 2634-33-5 Reg.nr.: 01-2120761540-60-XXXX	1,2-benzisothiazol-3(2H)-one Acute Tox. 2, H330; Eye Dam. 1, H318; Aquatic Acute 1, H400; Aquatic Chronic 2, H411; Acute Tox. 4, H302; Skin Irrit. 2, H315; Skin Sens. 1A, H317 ATE: LC <sub>50</sub> /4 h inhalative: 0.5 mg/l Specific concentration limit: Skin Sens. 1A; H317: C ≥ 0.036 %	<0.036%
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 %	≥ 0.00025- < 0.0015%
CAS: 26172-55-4	5-chloro-2-methyl-4-isothiazolin-3-one Acute Tox. 3, H301; Acute Tox. 3, H311; Acute Tox. 3, H331; Skin Corr. 1B, H314; Aquatic Acute 1, H400; Aquatic Chronic 1, H410; Skin Sens. 1, H317, EUH208R ATE: LD <sub>50</sub> oral: 100 mg/kg LD <sub>50</sub> dermal: 300 mg/kg LC <sub>50</sub> /4 h inhalative: 3 mg/l Specific concentration limits: Skin Corr. 1B; H314: C ≥ 0.6 % Skin Irrit. 2; H315: 0.06 % ≤ C < 0.6 % Eye Irrit. 2; H319: 0.06 % ≤ C < 0.6 % Skin Sens. 1; H317: C ≥ 0.0015 %	<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:** 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.

(Contd. on page 3)

# Safety data sheet

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Revision: 23.01.2025

Trade name / Article-No: **KLEIBERIT 473.0**

(Contd. of page 2)

### 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** 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**  
Particular danger of slipping on leaked/spilled product.
- **6.2. Environmental precautions:** No special measures required.
- **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:**
- **PNECs**

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

(Contd. on page 4)

# Safety data sheet

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Trade name / Article-No: **KLEIBERIT 473.0**

(Contd. of page 3)

PNEC-wastewater treatment plant 0.027 mg/l (not specified)

CAS No.	Designation of material	%	Type	Value	Unit
9003-01-4	Acrylic Acid, homopolymer				
MAK (Germany) Long-term value: 0.05A mg/m <sup>3</sup>					
2634-33-5	1,2-benzisothiazol-3(2H)-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/m <sup>3</sup> vgl.Abschn.Xc					
26172-55-4	5-chloro-2-methyl-4-isothiazolin-3-one				
MAK (Germany) Long-term value: 0.2E mg/m <sup>3</sup> 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

A Nitrile rubber - NBR: AlphaTec® (&gt; 0,4 mm)

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

Liquid

- Colour:

Red

- Odour:

Weak, 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:

Not applicable.

- Decomposition temperature:

Not determined.

- pH at 20 °C

ca. 5

- Viscosity:

- Kinematic viscosity

Not determined.

- Dynamic at 20 °C:

ca. 140 mPas  
Brookfield ( 2 / 20 rpm)

(Contd. on page 5)

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Revision: 23.01.2025

Trade name / Article-No: KLEIBERIT **473.0**

(Contd. of page 4)

- **Solubility**
- **water:** Not miscible or difficult to mix.
- **Partition coefficient n-octanol/water (log value)** Not determined.
- **Vapour pressure:** Not determined.
- **Density and/or relative density**
- **Density at 20 °C:** ca. 1.05 g/cm<sup>3</sup>
- **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:** 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.

(Contd. on page 6)

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Revision: 23.01.2025

**Trade name / Article-No: KLEIBERIT 473.0***(Contd. of page 5)*

· **LD/LC<sub>50</sub> values relevant for classification:**

**2634-33-5 1,2-benzisothiazol-3(2H)-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)  
Inhalative LC<sub>50</sub> /4 h 0.5 mg/l (ATE)

**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)

**26172-55-4 5-chloro-2-methyl-4-isothiazolin-3-one**

Oral LD<sub>50</sub> 100 mg/kg (ATE)  
Dermal LD<sub>50</sub> 300 mg/kg (ATE)  
Inhalative LC<sub>50</sub> /4 h 3 mg/l (ATE)

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

Based on available data, the classification criteria are not met.

· **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.

· **11.2. Information on other hazards**

· **Endocrine disrupting properties**

None of the ingredients is listed.

## SECTION 12: Ecological information

· **12.1. Toxicity**

· **Aquatic toxicity:**

**2634-33-5 1,2-benzisothiazol-3(2H)-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)

*(Contd. on page 7)*

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Trade name / Article-No: **KLEIBERIT 473.0**

(Contd. of page 6)

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.· **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**· **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

· **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.

### 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 (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.

(Contd. on page 8)

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Trade name / Article-No: **KLEIBERIT 473.0**

(Contd. of page 7)

· **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.· **VOC - 2010/75/EU [g/L]:** <1.0 g/l· **VOC - 2010/75/EU [%]:** <0.10 %· **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.

H311 Toxic 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.

H319 Causes serious eye irritation.

H330 Fatal if inhaled.

H331 Toxic 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.

EUH071 Corrosive to the respiratory tract.

EUH208R Contains 5-Chlor-2-methyl-4-isothiazolin-3-on. May produce an allergic reaction.

· **Department issuing SDS:** Safety & Environment· **Version number of previous version:** 3.0· **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)

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

(Contd. on page 9)



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Revision: 23.01.2025

**Trade name / Article-No: KLEIBERIT 473.0***(Contd. of page 8)*

ATE: Acute toxicity estimate values

Acute Tox. 3: Acute toxicity – Category 3

Acute Tox. 4: Acute toxicity – Category 4

Acute Tox. 2: Acute toxicity – Category 2

Skin Corr. 1B: Skin corrosion/irritation – Category 1B

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

EU