

Page 1/8

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

Printing date 03.03.2021 Version-No. 5 Revision: 03.03.2021

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

- · 1.1. Product identifier
- · Trade name / Article-No: KLEIBERIT 304.1
- 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

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)

+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 5-chloro-2-methyl-4-isothiazolin-3-one and 2-methyl-4isothiazolin-3-one (mixture in a ratio 3:1). 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: Synthetic polymer emulsion of polyvinylacetate in water

(Contd. on page 2)

Version-No. 5 Revision: 03.03.2021 Printing date 03.03.2021

Trade name / Article-No: KLEIBERIT 304.1

(Contd. of page 1)

Dangerous components:

Registry-No's Identification / Classification GHS-CLP

%

CAS: 108-32-7 propylene carbonate 3-5%

Reg.nr.: 01-2119537232-48-XXXX Eye Irrit. 2, H319

CAS: 55965-84-9 a mixture of: 5-chloro-2-methyl-2 H -isothiazol-3-one ≥0.00025-<0.0015%

[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: $0.06 \% \le C < 0.6 \%$ Eye Dam. 1; H318: C ≥ 0.6 %

Eye Irrit. 2; H319: $0.06 \% \le C < 0.6 \%$ Skin Sens. 1A; H317: C ≥ 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: 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.

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: 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.

(Contd. on page 3)

Printing date 03.03.2021 Version-No. 5 Revision: 03.03.2021

Trade name / Article-No: KLEIBERIT 304.1

(Contd. of page 2)

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

Wear protective gloves/protective clothing/eye protection/face protection.

Use at room temperature

Appropriate regular employee training.

additional to professional application with multiple and/or significant contact

limit the exposure to 4 hours

· 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

108-32-7 propylene carbonate

Dermal DNEL long term 20 mg/kg (human being) Inhalative DNEL long term 70.5 mg/m3 (human being)

· PNECs

108-32-7 propylene carbonate

PNEC- Freshwater 0.9 mg/l (not specified)
PNEC-seawater 0.09 mg/l (not specified)
PNEC-periodic release 9 mg/l (not specified)
PNEC-soil 0.81 mg/kg (not specified)
PNEC-wastewater treatment plant 7,400 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-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

108-32-7 propylene carbonate

AGW (Germany) Long-term value: 8.5 mg/m³, 2 ppm

1(I); DFG, Y, 11

(Contd. on page 4)

Printing date 03.03.2021 Version-No. 5 Revision: 03.03.2021

Trade name / Article-No: KLEIBERIT 304.1

(Contd. of page 3)

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

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:

Not necessary if room is well-ventilated.

At spray application respiratory protection must be worn.

- · 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 stateColour:Odour:Acidic

Odour threshold: Not determined.Melting point/freezing point: Undetermined.

· Boiling point or initial boiling point and boiling

range ca. 100 °C • Flammability Not applicable.

Lower and upper explosion limit

Lower: Not determined.Upper: Not determined.Flash point: Not applicable.

• Auto-ignition temperature: Product is not selfigniting.

• Decomposition temperature: Not determined.

pH at 20 °C ca. 3

· Viscosity:

Kinematic viscosity
 Dynamic at 20 °C:
 Brookfield (6 / 20 rpm)

· Solubility

· water: Not miscible or difficult to mix.

Partition coefficient n-octanol/water (log value)
 Vapour pressure:
 Not determined.
 Not determined.

Density and/or relative density

Density at 20 °C:
 Relative density
 Vapour density
 Ca. 1.12 g/cm³
 Not determined.
 Not determined.

(Contd. on page 5)

Printing date 03.03.2021 Version-No. 5 Revision: 03.03.2021

Trade name / Article-No: KLEIBERIT 304.1

(Contd. of page 4)

· 9.2. Other information

· Appearance:

· Form: Fluid

· Important information on protection of health and

environment, and on safety.

· **Ignition temperature:** Not applicable.

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

Change in condition

• Evaporation rate Not determined.

· Information with regard to physical hazard classes

Void · Explosives 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

SECTION 10: Stability and reactivity

· 10.1. Reactivity

· Desensitised explosives

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.

Void

- 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.
- · LD/LC₅₀ values relevant for classification:

108-32-7 propylene carbonate

Oral LD_{50} 33,520 mg/kg (rat) Dermal LD_{50} >2,000 mg/kg (rabbit)

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_{50} 457 mg/kg (rat) Dermal LD_{50} 141 mg/kg (rabbit) Inhalative LC_{50} /4 h 0.33 mg/l (rat)

(Contd. on page 6)

Printing date 03.03.2021 Version-No. 5 Revision: 03.03.2021

Trade name / Article-No: KLEIBERIT 304.1

(Contd. of page 5)

- · 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 excisting sensitizations against these substances and at skin contact allergic reactions can be possible.

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:

108-32-7 propylene carbonate

LC₅₀ >1,000 mg / I / 96h (fish)

EC₅₀ >1,000 mg / I / 48h (water flea - daphnia)

EC₅₀ >900 mg / I / 72h (algae)

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 / I / 96h (Fathead minnow - Pimephales promelas)

0.19 mg / I / 96h (fish)

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

EC₅₀ 0.018 mg / I / 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.

- · 12.6. 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.

(Contd. on page 7)

Printing date 03.03.2021 Version-No. 5 Revision: 03.03.2021

Trade name / Article-No: KLEIBERIT 304.1

(Contd. of page 6)

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 (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.

- · 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 %
- 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.
- H310 Fatal in contact with skin.
- H314 Causes severe skin burns and eye damage.
- H317 May cause an allergic skin reaction.

(Contd. on page 8)

(Contd. of page 7)

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

Printing date 03.03.2021 Version-No. 5 Revision: 03.03.2021

Trade name / Article-No: KLEIBERIT 304.1

Causes serious eye damage. H318

H319 Causes serious eye irritation.

H330 Fatal if inhaled.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

EUH071 Corrosive to the respiratory tract.

- · Department issuing SDS: Safety & Environment
- · Version number of previous version: 4
- 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. 2: Acute toxicity - Category 2

Skin Corr. 1C: Skin corrosion/irritation - Category 1C

Eye Dam. 1: Serious eye damage/eye irritation - Category 1

Eye Irrit. 2: Serious eye damage/eye irritation - Category 2 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