

Safety data sheet

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

Printing date 31.10.2023



Version-No. 2 (replaces version 1)

Revision: 31.10.2023

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

- **1.1. Product identifier**
- Trade name / Article-No: **KLEIBERIT 512.0**
- UFI: 9T11-H0ER-1001-HG8S
- **1.2. Relevant identified uses of the substance / mixture or uses advised against**
For professional users only.
- **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)
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**
Eye Dam. 1 H318 Causes serious eye damage.
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**
 
GHS05 GHS07
- **Signal word** Danger
- **Hazard-determining components of labelling:**
octanediol
reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate
- **Hazard statements**
H318 Causes serious eye damage.
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.

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EU

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- 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.
 P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
 P337+P313 If eye irritation persists: Get medical advice/attention.

- **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: 94-96-2	octanediol Eye Dam. 1, H318	20-30%
CAS: 2530-83-8 Reg.nr.: 01-2119513212-58	3-Glycidyoxypropyltrimethoxysilan Eye Dam. 1, H318; Aquatic Chronic 3, H412	≥1-<2%
Reg.nr.: 01-2119396032-43-XXXX	reaction mass of α-3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyl-ω-hydroxypoly(oxyethylene) and α-3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyl-ω-3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyloxypoly(oxyethylene) Aquatic Chronic 2, H411; Skin Sens. 1, H317	≥0.25-<1%
Reg.nr.: 01-2119491304-40-xxxx	reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate Repr. 2, H361f; Aquatic Acute 1, H400; Aquatic Chronic 1, H410; Skin Sens. 1A, H317	≥0.25-<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:** In case of unconsciousness place patient stably in side position for transportation.
- **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**

No further relevant information available.

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- **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** 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.
- **6.2. Environmental precautions:**
Inform respective authorities in case of seepage into water course or sewage system.
- **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**
- 94-96-2 octanediol**
- Dermal DNEL short term 228.9 mg/kg (human being)
- DNEL long term 76.3 mg/kg (human being)
- 2530-83-8 3-Glycidyloxypropyltrimethoxysilan**
- Dermal DNEL short term 21 mg/kg (human being)

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DNEL long term 21 mg/kg (human being)
 Inhalative DNEL short term 147 mg/m³ (human being)
 DNEL long term 147 mg/m³ (human being)

reaction mass of α -3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyl- ω -hydroxypoly(oxyethylene) and α -3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyl- ω -3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyloxypoly(oxyethylene)

Dermal DNEL 0.025 mg/kg (human being)

reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate

Dermal DNEL long term 2.5 mg/kg (human being)
 Inhalative DNEL short term 2.35 mg/m³ (human being)
 DNEL long term 2.35 mg/m³ (human being)

PNECs**94-96-2 octanediol**

PNEC- Freshwater 0.1 mg/l (not specified)
 PNEC-seawater 0.01 mg/l (not specified)
 PNEC-Freshwater sediment 1.6 mg/kg (not specified)
 PNEC-Seawater sediment 0.16 mg/kg (not specified)
 PNEC-soil 0.17 mg/kg (not specified)
 PNEC-wastewater treatment plant 3 mg/l (not specified)

2530-83-8 3-Glycidyoxypropyltrimethoxysilan

PNEC- Freshwater 1 mg/l (not specified)
 PNEC-seawater 0.1 mg/l (not specified)
 PNEC-periodic release 1 mg/l (not specified)
 PNEC-Freshwater sediment 0.79 mg/kg (not specified)
 PNEC-Seawater sediment 0.079 mg/kg (not specified)
 PNEC-soil 0.13 mg/kg (not specified)
 PNEC-wastewater treatment plant >10 mg/l (not specified)

reaction mass of α -3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyl- ω -hydroxypoly(oxyethylene) and α -3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyl- ω -3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyloxypoly(oxyethylene)

PNEC- Freshwater 0.023 mg/l (not specified)
 PNEC-seawater 0.00046 mg/l (not specified)
 PNEC-Freshwater sediment 7.26 mg/kg (not specified)
 PNEC-soil 14.52 mg/kg (not specified)
 PNEC-wastewater treatment plant 0.34 mg/l (not specified)

reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate

PNEC-seawater 0.00022 mg/l (not specified)
 PNEC-Freshwater sediment 1.05 mg/kg (not specified)

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PNEC-Seawater sediment 0.11 mg/kg (not specified)

PNEC-soil 0.21 mg/kg (not specified)

CAS No.	Designation of material	%	Type	Value	Unit
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94-96-2 octanediol

MAK (Germany) als Dampf und Aerosol;vgl.Abschn.IIb undXc

1318-02-1 zeolites

MAK (Germany) synthetisch, nicht faserförmig, Abschn. IIb

2530-83-8 3-Glycidyloxypropyltrimethoxysilan

MAK (Germany) vgl. Abschn. IVe

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® (> 0,4 mm)

- **Eye/face protection** Tightly sealed goggles

- **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:**

According to product specification

- **Odour:**

Characteristic

- **Odour threshold:**

Not determined.

- **Melting point/freezing point:**

Undetermined.

- **Boiling point or initial boiling point and boiling range**

243 °C

- **Flammability**

Not applicable.

- **Lower and upper explosion limit**

- **Lower:**

Not determined.

- **Upper:**

Not determined.

- **Flash point:**

126 °C

- **Auto-ignition temperature:**

340 °C

- **Decomposition temperature:**

Not determined.

- **pH**

Not determined.

- **Viscosity:**

- **Kinematic viscosity**

Not determined.

- **Dynamic at 20 °C:**

ca. 5.600 mPas

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· 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. 0.93 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.

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- **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:**

94-96-2 octanediol

Oral LD₅₀ 4,636 mg/kg (rat)Dermal LD₅₀ 8,960 mg/kg (rabbit)

2530-83-8 3-Glycidyloxypropyltrimethoxysilan

Oral LD₅₀ 8,025 mg/kg (rat)Dermal LD₅₀ >2,000 mg/kg (rabbit)

reaction mass of α-3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyl-ω-hydroxypoly(oxyethylene) and α-3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyl-ω-3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyloxy poly(oxyethylene)

Oral LD₅₀ >5,000 mg/kg (rat)Dermal LD₅₀ >2,000 mg/kg (rat)Inhalative LC₅₀ >5.8 mg/l (rat)

reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate

Oral LD₅₀ 3,125 mg/kg (rat)Dermal LD₅₀ 3,170 mg/kg (rat)

- **Skin corrosion/irritation** Based on available data, the classification criteria are not met.
- **Serious eye damage/irritation** Causes serious eye damage.
- **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** 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:**

94-96-2 octanediol

LC₀ >1,000 g/l (48 h) (gold orfw - Leuciscus idus)EC₅₀ 811 mg / l / 24h (water flea - daphnia)

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Trade name / Article-No: KLEIBERIT 512.0*(Contd. of page 7)***2530-83-8 3-Glycidyloxypropyltrimethoxysilan**LC₅₀ 55 mg / l / 96h (fish)EC₅₀ 324 mg / l / 48h (water flea - daphnia)**reaction mass of α-3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyl-ω-hydroxypoly(oxyethylene) and α-3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyl-ω-3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyloxypoly(oxyethylene)**LC₅₀ 2.8 mg / l / 96h (Fathead minnow - Pimephales promelas)EC₅₀ 4 mg / l / 48h (water flea - daphnia)EC₅₀ >9 mg / l / 72h (algae)**reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate**LC₅₀ 0.9 mg / l / 96h (Zebrafish - Danio rerio) (OECD 203)

7.9 mg / l / 96h (Fathead minnow - Pimephales promelas) (OECD 203)

0.97 mg / l / 96h (Bluegill - Lepomis macrochirus) (OECD 203)

EC₅₀ 20 mg / l / 24h (water flea - daphnia) (OECD 202)· **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 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

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.

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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.
- 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.
- Other regulations, limitations and prohibitive regulations: For professional users only.
- VOC - 2010/75/EU [g/L]: 0.1 g/l
- VOC - 2010/75/EU [%]: 0.01 %

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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**

- H317 May cause an allergic skin reaction.
- H318 Causes serious eye damage.
- H361f Suspected of damaging fertility.
- 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.
- H412 Harmful to aquatic life with long lasting effects.

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

- **Version number of previous version:** 1

- **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
- 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