

## Safety data sheet

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

Printing date 02.12.2025

Version-No. 4.0 (replaces version 3.0)

Revision: 02.12.2025

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

- **1.1. Product identifier**
- Trade name / Article-No: **KLEIBERIT 601.1.10**
- **Article description:** White
- **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**  
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:**  
Safety data sheet available on request.  
Contains trimethoxyvinylsilane. May produce an allergic reaction.
- **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.

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- **Dangerous components:**

Registry-No's	Identification / Classification GHS-CLP	%
CAS: 2768-02-7 Reg.nr.: 01-2119513215-52-XXXX	trimethoxyvinylsilane Flam. Liq. 2, H225; Acute Tox. 4, H332; Skin Sens. 1B, H317	≥0.1-<1%
CAS: 52829-07-9 Reg.nr.: 01-2119537297-32-XXXX	Bis(2,2,6,6-tetramethyl-4-piperidyl)sebacate Repr. 2, H361f; Eye Dam. 1, H318; Aquatic Acute 1, H400; Aquatic Chronic 2, H411	≥0.25-<1%
CAS: 54068-28-9 Reg.nr.: 01-0000020199-67-XXXX	dioctyltin acetylacetonate STOT SE 2, H371; Skin Sens. 1, H317	≥0.1-<0.5%

- **Additional information:**

Product hydrolyzes under formation of methanol (CAS No. 67-56-1).  
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:**

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:** 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**

Ensure good ventilation. This can be achieved by using a local exhaustion or general exhaust system. If these measures are insufficient to keep the vapour concentration below the workplace limit, wear an adequate respiratory protective device.

Appropriate regular employee training.

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

Avoid contact with the skin.

- **General protective and hygienic measures:**

Avoid contact with the skin.

Keep good industrial hygiene.

- **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:** Protect from humidity and water.

- **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:**

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

- **DNELs**

**2768-02-7 trimethoxyvinylsilane**

Dermal DNEL 0.69 mg/kg (human being)

Inhalative DNEL 4.9 mg/m<sup>3</sup> (human being)
**52829-07-9 Bis(2,2,6,6-tetramethyl-4-piperidyl)sebacate**

Dermal DNEL long term 1.6 mg/kg (human being)

Inhalative DNEL short term 2.82 mg/m<sup>3</sup> (human being)DNEL long term 2.82 mg/m<sup>3</sup> (human being)

- **PNECs**

**2768-02-7 trimethoxyvinylsilane**

PNEC- Freshwater 0.36 mg/l (not specified)

PNEC-seawater 0.036 mg/l (not specified)

PNEC-periodic release 3.4 mg/l (not specified)

PNEC-Freshwater sediment 0.29 mg/kg (not specified)

PNEC-soil 0.048 mg/kg (not specified)

PNEC-wastewater treatment plant 110 mg/l (not specified)

**52829-07-9 Bis(2,2,6,6-tetramethyl-4-piperidyl)sebacate**

PNEC- Freshwater 0.018 mg/l (not specified)

PNEC-seawater 0.0018 mg/l (not specified)

PNEC-periodic release 0.007 mg/l (not specified)

PNEC-Freshwater sediment 29 mg/kg (not specified)

PNEC-Seawater sediment 2.9 mg/kg (not specified)

PNEC-soil 5.9 mg/kg (not specified)

PNEC-wastewater treatment plant 1 mg/l (not specified)

- **8.2. Exposure controls**

limit the exposure to:

8 hours

Ensure that activities are executed by specialists or authorised personnel only.

- **Appropriate engineering controls** No further data; see section 7.

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- **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  
Avoid direct contact with the chemical/ the product/ the preparation by organisational measures.
- **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** Liquid
- **Colour:** White
- **Odour:** Mild
- **Odour threshold:** Not determined.
- **Melting point/freezing point:** Undetermined.
- **Boiling point or initial boiling point and boiling range** 346 °C
- **Flammability** Not applicable.
- **Lower and upper explosion limit**
- **Lower:** Not determined.
- **Upper:** Not determined.
- **Flash point:** Not applicable.
- **Auto-ignition temperature:** 390 °C
- **Decomposition temperature:** Not determined.
- **pH** Not determined.
- **Viscosity:**
- **Kinematic viscosity** Not determined.
- **Dynamic:** Not determined.
- **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. 1.6 g/cm<sup>3</sup>
- **Relative density** Not determined.
- **Vapour density** Not determined.
- **9.2. Other information**
- **Appearance:**
- **Form:** Pasty
- **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

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· 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** Product hydrolyzes under formation of methanol (CAS No. 67-56-1).
- **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** humidity
- **10.5. Incompatible materials:** No further relevant information available.
- **10.6. Hazardous decomposition products:** Methanol - On reaction with water or air humidity

## 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/LC<sub>50</sub> values relevant for classification:**
  - 2768-02-7 trimethoxyvinylsilane**
  - Oral LD<sub>50</sub> 7,120-7,236 mg/kg (rat) (OECD 401)
  - Dermal LD<sub>50</sub> 3,200 mg/kg (rabbit) (OECD 402)
  - Inhalative LC<sub>50</sub> /4 h 16.8 mg/l (rat) (OECD 403)
  - 52829-07-9 Bis(2,2,6,6-tetramethyl-4-piperidyl)sebacate**
  - Oral LD<sub>50</sub> >2,000 mg/kg (rat)
  - Dermal LD<sub>50</sub> >2,000 mg/kg (rat)
  - 54068-28-9 dioctyltin acetylacetonate**
  - Oral LD<sub>50</sub> 2,500 mg/kg (rat)
  - Dermal LD<sub>50</sub> >2,000 mg/kg (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** 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** Unnecessary

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- **Endocrine disrupting properties**  
Unnecessary

None of the ingredients is listed.

**SECTION 12: Ecological information**

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

**2768-02-7 trimethoxyvinylsilane**LC<sub>50</sub> 191 mg / l / 96h (Fathead minnow - Pimephales promelas)EC<sub>50</sub> 169 mg / l / 48h (water flea - daphnia)**52829-07-9 Bis(2,2,6,6-tetramethyl-4-piperidyl)sebacate**LC<sub>50</sub> 4.4 mg / l / 96h (Bluegill - Lepomis macrochirus)

4.4 mg / l / 96h (fish)

EC<sub>50</sub> 8.6 mg / l / 48h (water flea - daphnia)**54068-28-9 dioctyltin acetylacetonate**LC<sub>50</sub> 86 mg / l / 96h (Fathead minnow - Pimephales promelas)EC<sub>50</sub> 58.6 mg / l / 48h (water flea - daphnia)EC<sub>50</sub> 300 mg / l / 24h (Chlorophyceae - Scenedesmus subspicatus)

- **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 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 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

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- **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.
- **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.
- **VOC - 2010/75/EU [g/L]:** <80.0 g/l
- **VOC - 2010/75/EU [%]:** <5.00 %
- **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**
- H225 Highly flammable liquid and vapour.
- H317 May cause an allergic skin reaction.
- H318 Causes serious eye damage.
- H332 Harmful if inhaled.
- H361f Suspected of damaging fertility.
- H371 May cause damage to organs.

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H400 Very toxic to aquatic life.

H411 Toxic to aquatic life with long lasting effects.

· **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)

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

ATE: Acute toxicity estimate values

Flam. Liq. 2: Flammable liquids – Category 2

Acute Tox. 4: Acute toxicity – Category 4

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

Skin Sens. 1: Skin sensitisation – Category 1

Skin Sens. 1B: Skin sensitisation – Category 1B

Repr. 2: Reproductive toxicity – Category 2

STOT SE 2: Specific target organ toxicity (single exposure) – Category 2

Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1

Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2

EU