

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

Printing date 17.12.2025

Version-No. 8.0 (replaces version 7.0)

Revision: 17.12.2025

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

- **1.1. Product identifier**
- **Trade name / Article-No: KLEIBERIT 531.4**
- **Component:** A
- **UFI:** YJSY-D0PP-A003-8HEE
- **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  
 National Poisons Information Centre Ireland:  
**+353 (0)1 809 2166** Members of the public Number (8am-10pm)  
**+353 (0)1 809 2566** Healthcare professional telephone Number (24hrs)

**SECTION 2: Hazards identification**

- **2.1. Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008 - GHS/CLP**
  - Skin Irrit. 2 H315 Causes skin irritation.
  - Eye Irrit. 2 H319 Causes serious eye irritation.
  - Skin Sens. 1 H317 May cause an allergic skin reaction.
  - Repr. 1B H360F May damage fertility.
  - Aquatic Chronic 2 H411 Toxic to aquatic life with long lasting effects.

- **2.2. Label elements**
- **Hazard pictograms**



GHS07 GHS08 GHS09

- **Signal word** Danger
- **Hazard-determining components of labelling:**  
 bis-[4-(2,3-epoxipropoxy)phenyl]propane  
 Reaction products of hexane-1,6-diol with 2-(chloromethyl)oxirane
- **Hazard statements**  
 H315 Causes skin irritation.

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H319 Causes serious eye irritation.  
 H317 May cause an allergic skin reaction.  
 H360F May damage fertility.  
 H411 Toxic to aquatic life with long lasting effects.

**Precautionary statements**

P261 Avoid breathing mist/vapours/spray.  
 P273 Avoid release to the environment.  
 P280 Wear protective gloves / eye protection.  
 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.  
 P308+P313 IF exposed or concerned: Get medical advice/attention.

**Additional information:**

Contains epoxy constituents. 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**

1675-54-3 bis-[4-(2,3-epoxipropoxi)phenyl]propane: List II

**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: 1675-54-3	bis-[4-(2,3-epoxipropoxi)phenyl]propane Aquatic Chronic 2, H411; Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317 Specific concentration limits: Eye Irrit. 2; H319: C ≥ 5 % Skin Irrit. 2; H315: C ≥ 5 %	30-40%
CAS: 770-35-4	1-phenoxy-2-propanol Eye Irrit. 2, H319	≥3-≤5%
CAS: 933999-84-9 Reg.nr.: 01-2119463471-41-XXXX	Reaction products of hexane-1,6-diol with 2-(chloromethyl)oxirane Repr. 1B, H360F; Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317	≥1-≤3%
CAS: 112945-52-5 Reg.nr.: 01-2119379499-16-XXXX	Silicon dioxide, amorphous substance with a Community workplace exposure limit	<2%

**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:**

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.

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- **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.
- **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:**  
 Do not allow to enter surface or ground water.  
 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).  
 Use neutralising agent.  
 Ensure adequate ventilation.
- **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**  
 Not less than 3-5 air exchanges per hour  
 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.  
 Wear protective gloves/protective clothing/eye protection/face protection.  
 Use only in well ventilated areas.  
 have emergency plan in place, to minimize impact
- **General protective and hygienic measures:** Appropriate regular employee training.
- **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:**  
 The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

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· **DNELs****1675-54-3 bis-[4-(2,3-epoxipropoxi)phenyl]propane**

Dermal DNEL long term 0.75 mg/kg (not specified)

Inhalative DNEL long term 4.93 mg/m<sup>3</sup> (not specified)**933999-84-9 Reaction products of hexane-1,6-diol with 2-(chloromethyl)oxirane**

Dermal DNEL long term 2.2 mg/kg (worker)

Inhalative DNEL long term 3.88 mg/m<sup>3</sup> (worker)· **PNECs****1675-54-3 bis-[4-(2,3-epoxipropoxi)phenyl]propane**

PNEC- Freshwater 0.006 mg/l (not specified)

PNEC-seawater 0.001 mg/l (not specified)

PNEC-Freshwater sediment 0.341 mg/kg (not specified)

PNEC-Seawater sediment 0.034 mg/kg (not specified)

PNEC-soil 0.065 mg/kg (not specified)

PNEC-wastewater treatment plant 10 mg/l (not specified)

**933999-84-9 Reaction products of hexane-1,6-diol with 2-(chloromethyl)oxirane**

PNEC- Freshwater 0.111 mg/l (not specified)

PNEC-seawater 0.0111 mg/l (not specified)

PNEC-Freshwater sediment 2.29 mg/kg (not specified)

PNEC-Seawater sediment 0.229 mg/kg (not specified)

PNEC-soil 0.223 mg/kg (not specified)

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

· **CAS No. Designation of material % Type Value Unit****770-35-4 1-phenoxy-2-propanol**

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

**112945-52-5 Silicon dioxide, amorphous**MAK (Germany) Long-term value: 0.02A mg/m<sup>3</sup>

vgl. Abschn. V

· **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:** Avoid contact with the eyes and skin.· **Respiratory protection:** Filter A· **Hand protection** Protective gloves· **Material of gloves** D butyl rubber - BR: ChemTek™ (0,7 mm)· **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:** Whitish· **Odour:** Weak, characteristic

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· <b>Odour threshold:</b>	Not determined
· <b>Melting point/freezing point:</b>	Undetermined
· <b>Boiling point or initial boiling point and boiling range</b>	200 °C
· <b>Flammability</b>	Not applicable
· <b>Lower and upper explosion limit</b>	
· <b>Lower:</b>	Not determined
· <b>Upper:</b>	Not determined
· <b>Flash point:</b>	>140 °C
· <b>Auto-ignition temperature:</b>	460 °C
· <b>Decomposition temperature:</b>	Not determined
· <b>pH</b>	Not determined
· <b>Viscosity:</b>	
· <b>Kinematic viscosity</b>	Not determined
· <b>Dynamic at 20 °C:</b>	ca. 135.000 mPas
· <b>Solubility</b>	
· <b>water:</b>	Not miscible or difficult to mix.
· <b>Partition coefficient n-octanol/water (log value)</b>	Not determined
· <b>Vapour pressure at 20 °C:</b>	<0.1 hPa
· <b>Density and/or relative density</b>	
· <b>Density at 20 °C:</b>	ca. 1.75 g/cm <sup>3</sup>
· <b>Relative density</b>	Not determined
· <b>Vapour density</b>	Not determined
· <b>9.2. Other information</b>	
· <b>Appearance:</b>	
· <b>Form:</b>	Pasty
· <b>Important information on protection of health and environment, and on safety.</b>	
· <b>Ignition temperature:</b>	Product is not selfigniting.
· <b>Explosive properties:</b>	Product does not present an explosion hazard.
· <b>Change in condition</b>	
· <b>Evaporation rate</b>	Not determined
· <b>Information with regard to physical hazard classes</b>	
· <b>Explosives</b>	Void
· <b>Flammable gases</b>	Void
· <b>Aerosols</b>	Void
· <b>Oxidising gases</b>	Void
· <b>Gases under pressure</b>	Void
· <b>Flammable liquids</b>	Void
· <b>Flammable solids</b>	Void
· <b>Self-reactive substances and mixtures</b>	Void
· <b>Pyrophoric liquids</b>	Void
· <b>Pyrophoric solids</b>	Void
· <b>Self-heating substances and mixtures</b>	Void
· <b>Substances and mixtures, which emit flammable gases in contact with water</b>	Void
· <b>Oxidising liquids</b>	Void
· <b>Oxidising solids</b>	Void
· <b>Organic peroxides</b>	Void
· <b>Corrosive to metals</b>	Void
· <b>Desensitised explosives</b>	Void

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**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.

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

**1675-54-3 bis-[4-(2,3-epoxipropoxi)phenyl]propane**

Oral LD<sub>50</sub> >2,000 mg/kg (rat)

Dermal LD<sub>50</sub> >2,000 mg/kg (rat)

**933999-84-9 Reaction products of hexane-1,6-diol with 2-(chloromethyl)oxirane**

Oral LD<sub>50</sub> 2,900 mg/kg (rat)

Dermal LD<sub>50</sub> >2,000 mg/kg (rat)

**112945-52-5 Silicon dioxide, amorphous**

Oral LD<sub>50</sub> >5,000 mg/kg (rat)

Dermal LD<sub>50</sub> >2,000 mg/kg (rabbit)

- **Primary irritant effect:**

- **Skin corrosion/irritation** Causes skin irritation.

- **Serious eye damage/irritation** Causes serious eye irritation.

- **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** May damage fertility.

- **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

- **Endocrine disrupting properties**

1675-54-3 bis-[4-(2,3-epoxipropoxi)phenyl]propane: List II

**SECTION 12: Ecological information**

- **12.1. Toxicity**

- **Aquatic toxicity:**

**1675-54-3 bis-[4-(2,3-epoxipropoxi)phenyl]propane**

LC<sub>50</sub> 1.2 mg / l / 96h (Fathead minnow - Pimephales promelas)

EC<sub>50</sub> 2.7 mg / l / 48h (water flea - daphnia)

EC<sub>50</sub> 9.4 mg / l / 72h (green algae - Scenedesmus capricornutum)

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**933999-84-9 Reaction products of hexane-1,6-diol with 2-(chloromethyl)oxirane**LC<sub>50</sub> 30 mg / l / 96h (trout)LC<sub>50</sub> 23.1 mg / l / 48h (algae)EC<sub>50</sub> 47 mg / l / 48h (water flea - daphnia)**112945-52-5 Silicon dioxide, amorphous**LC<sub>50</sub> >10,000 mg / l / 96h (Zebrafish - Danio rerio) (OECD 203)· **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** For information on endocrine disrupting properties see section 11.· **12.7. Other adverse effects**· **Remark:** Harmful to fish· **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 09\* waste adhesives and sealants containing organic solvents or other hazardous substances

· **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**

UN3082

· **ADR, IMDG, IATA**· **14.2. UN proper shipping name**

Void

3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE,  
LIQUID, N.O.S. (ADHESIVES)· **DOT**ENVIRONMENTALLY HAZARDOUS SUBSTANCE,  
LIQUID, N.O.S. (ADHESIVES), MARINE POLLUTANT· **ADR**ENVIRONMENTALLY HAZARDOUS SUBSTANCE,  
LIQUID, N.O.S. (ADHESIVES)· **IMDG**ENVIRONMENTALLY HAZARDOUS SUBSTANCE,  
LIQUID, N.O.S. (ADHESIVES), MARINE POLLUTANT· **IATA**ENVIRONMENTALLY HAZARDOUS SUBSTANCE,  
LIQUID, N.O.S. (ADHESIVES)· **14.3. Transport hazard class(es)**

9 Miscellaneous dangerous substances and articles.

· **Class**

9

· **Label**

III

· **14.4. Packing group**

Symbol (fish and tree)

· **ADR, IMDG, IATA**

Symbol (fish and tree)

· **14.5. Environmental hazards:**· **Marine pollutant:**· **Special marking (ADR):**

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· <b>Special marking (IATA):</b>	Symbol (fish and tree)
· <b>14.6. Special precautions for user</b>	Warning: Miscellaneous dangerous substances and articles.
· <b>Hazard identification number (Kemler code):</b>	90
· <b>EMS Number:</b>	F-A,S-F
· <b>Stowage Category</b>	A
· <b>14.7. Maritime transport in bulk according to IMO instruments</b>	Not applicable
· <b>ADR</b>	
· <b>Limited quantities (LQ)</b>	5L
· <b>Excepted quantities (EQ)</b>	Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
· <b>Transport category</b>	3
· <b>Tunnel restriction code</b>	(-)
· <b>IMDG</b>	
· <b>Limited quantities (LQ)</b>	5L
· <b>Excepted quantities (EQ)</b>	Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml

**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.

- **Seveso category E2** Hazardous to the Aquatic Environment

- **Qualifying quantity (tonnes) for the application of lower-tier requirements** 200 t

- **Qualifying quantity (tonnes) for the application of upper-tier requirements** 500 t

- **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 2 (Self-assessment): hazardous for water.

- **Other regulations, limitations and prohibitive regulations:** For professional users only.

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- 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**

- H315 Causes skin irritation.
- H317 May cause an allergic skin reaction.
- H319 Causes serious eye irritation.
- H360F May damage fertility.
- H411 Toxic to aquatic life with long lasting effects.

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

· **Version number of previous version:** 7.0

· **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

Skin Irrit. 2: Skin corrosion/irritation – Category 2

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

Skin Sens. 1: Skin sensitisation – Category 1

Repr. 1B: Reproductive toxicity – Category 1B

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

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