

**Material Safety Data Sheet**
selon ISO/DIS 11014

Printing date 02/12/2023

Version-No. 2

Reviewed on 02/12/2023

Identification· **1.1. Product identifier**· Trade name / Article No: **KLEIBERIT 882.8**

· Application of the substance / the mixture Protective coating

· **1.3. Details of the supplier of the safety data sheet**· **Manufacturer/Supplier:**

KLEBCHEMIE

M.G.Becker GmbH & Co. KG

Max Becker Str. 4

D - 76356 Weingarten / Baden

Allemagne / Germany

· **Information department:**

KLEIBERIT Adhesives Canada

Inc.

45 Sheppard Avenue East, Suite 900

Toronto, Ontario M2N 5W9

Canada

Phone 1-416-256-5842

FAX 1-416-781-4901

Toll free 1888-443-666

· **1.4. Emergency telephone number:**

email: hse@kleiberit.com

1-800-424-9300 (CHEMTREC)

1-800-451-1403 (SARA-HOTLINE)

Hazard(s) identification· **2.1. Classification of the substance or mixture**· **Classification according to Regulation (EC) No 1272/2008 - GHS/CLP**

Flam. Liq. 2 H225 Highly flammable liquid and vapour.

Carc. 1A H350 May cause cancer.

· **2.2. Label elements**· **Hazard pictograms**

GHS02 GHS08

· **Signal word** Danger· **Hazard-determining components of labeling:**

ethanol

· **Hazard statements**

H225 Highly flammable liquid and vapour.

H350 May cause cancer.

· **Precautionary statements**

P243 Take actions to prevent static discharges.

P280 Wear protective gloves / eye protection.

P210 Keep away from open flames. - No smoking.

P261 Avoid breathing mist/vapours/spray.

P302+P352 IF ON SKIN: Wash with plenty of water.

P404 Store in a closed container.

· **NFPA-ratings (scale 0 - 4) - USA:**

Health = 0

Fire = 3

Reactivity = 0

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· HMIS-ratings (scale 0 - 4) - USA:

HEALTH	0	Health = 0
FIRE	3	Fire = 3
REACTIVITY	0	Reactivity = 0

· WHMIS Classes, Divisions and Subdivisions - Canada

B2 - Flammable liquid



· **Class B - Flammable and Combustible Materials** Division 2 - Flammable Liquid

· **Class D - Poisonous and Infectious Materials**

Division 2 - Materials Causing Other Toxic Effects

Subdivision B - Toxic Materials

· **CARCINOGENICITY** NTP: No IARC: No OSHA: No

· 2.3. Other hazards

The product does not contain any organic halogen compounds (AOX), nitrates, heavy metal compounds or formaldehydes.

Composition/information on ingredients

· 3.2. Mixtures

· **Description:** Mixture of the substances listed below with nonhazardous additions.

· Dangerous components:

Registry-No's	Identification / Classification GHS-CLP	%
CAS: 64-17-5	ethanol	80-90% w/w
RTECS: KQ 6300000	Flam. Liq. 2, H225; Carc. 1A, H350	

· **Additional information:** For the wording of the listed hazard phrases refer to section 16.

First-aid measures

· 4.1. Description of first aid measures

· **After inhalation:** Supply fresh air; consult doctor in case of complaints.

· **After skin contact:**

Immediately wash with water and soap and rinse thoroughly.

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:**

Rinse out mouth and then drink plenty of water.

Do not induce vomiting; immediately call for medical help.

· **Information for doctor:**

· 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.

Fire-fighting measures

· Flammability

See 9 - Physical and chemical properties

- Flash point

· **If yes, under which conditions ?** Ignition sources, open flames, static discharge.

· 5.1. Extinguishing media

· **Suitable extinguishing agents:**

CO₂, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

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- **For safety reasons unsuitable extinguishing agents:**
- **Flash point :** See Pos. 9
- **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.

Accidental release measures

- **6.1. Personal precautions, protective equipment and emergency procedures**
Wear protective equipment. Keep unprotected persons away.
Keep away from ignition sources
Ensure adequate ventilation
- **6.2. Environmental precautions:**
Do not allow to enter surface or ground water.
Suppress gases/fumes/haze with water spray.
Dilute with plenty of water.
- **6.3. Methods and material for containment and cleaning up:**
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
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.

Handling and storage

- **Handling:**
- **7.1. Precautions for safe handling** Use only in well ventilated areas.
- **Information about protection against explosions and fires:**
 >> **Protect against electrostatic charges.** <<
 Keep ignition sources away - Do not smoke.
- **7.2. Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** Store in a cool location.
- **Information about storage in one common storage facility:** Store away from oxidizing agents.
- **Further information about storage conditions:** Store in cool, dry conditions in well sealed receptacles.
- **7.3. Specific end use(s)** No further relevant information available.

Exposure controls/personal protection

- **Additional information about design of technical systems:** No further data; see item 7.
- **8.1. Control parameters**
- **Components with limit values that require monitoring at the workplace:**

CAS No.	Designation of material	%	Type	Value	Unit
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64-17-5 ethanol

EL (USA)	Short-term value:	1000	ppm
EV (USA)	Long-term value:	1.900 mg/m ³ , 1.000	ppm
PEL (USA)	Long-term value:	1900 mg/m ³ , 1000	ppm
REL (USA)	Long-term value:	1900 mg/m ³ , 1000	ppm
TLV (USA)	Short-term value:	1880 mg/m ³ , 1000	ppm

25322-68-3 polyethylene glycol

WEEL (USA)	Long-term value:	10	mg/m ³
(H); MW>200			

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- **8.2. Exposure controls**
- **Personal protective equipment:**
- **General protective and hygienic measures:** Wash hands before breaks and at the end of work.
- **Breathing equipment:**
Wear NIOSH-approved, air-purifying respirator in case of insufficient ventilation.
Organic gases/vapors with boiling point >'more than' 149 °F/65 °C: eg.
¹ (F)OV - (Full Facepiece) Organic Vapor Respirator
² **Europe:** EN14387 Filtrtype A, brown
- **Protection of hands:** Protective gloves
- **Material of gloves**
 B Polyethylenynlon: Barrier™ (0,062 mm)
 D butyl rubber - BR: ChemTek™ (0,7 mm)
 E Fluorocarbon rubber (Viton) - FKM (0,7 mm) ! General information without declaration of a manufacturer !
- **Eye protection:** Tightly sealed goggles

Physical and chemical properties

- **9.1. Information on basic physical and chemical properties**
- **General Information**
- **Appearance:**
 - Form: Fluid
 - Color: Blue
- **Odor:** Alcohol-like
- **Odor threshold:** Not determined.
- **pH-value:** Not determined.
- **Change in condition**
 - Melting point/Melting range: Undetermined.
 - Boiling point/Boiling range: 78 °C (172 °F)
- **Flash Point:** 13 °C (55 °F)
- **Flammability (solid, gaseous):** Not applicable.
- **Ignition Temperature:** 320 °C (608 °F)
- **Decomposition Temperature:** Not determined.
- **Auto Igniting:** Product is not selfigniting.
- **Danger of Explosion:** Product is not explosive. However, formation of explosive air/vapor mixtures are possible.
- **Explosion Limits:**
 - Lower: 3.5 Vol %
 - Upper: 15 Vol %
- **Vapor Pressure at 20 °C (68 °F):** 59 hPa (44 mm Hg)
- **Density at 20 °C (68 °F):** 0.82 g/cm³ (6.843 lbs/gal)
- **Relative Density** Not determined.
- **Vapour Density** Not determined.
- **Evaporation Rate** Not determined.
- **Solubility in / Miscibility with**
 - Water: Fully miscible.
- **Partition coefficient (n-octanol/water):** Not determined.
- **Viscosity:**
 - Dynamic: Not determined.
 - Kinematic: Not determined.

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9.2. Other information

No further relevant information available.

Stability and reactivity

- 10.1. **Reactivity** see item 10.3
- 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.

Toxicological information

- 11.1. **Information on toxicological effects**
- Acute toxicity:** Based on available data, the classification criteria are not met.
- LD/LC50 values that are relevant for classification:**

64-17-5 ethanol

Oral LD50 6200 mg/kg (rat)

Inhalative LC50 /4 h 124.7 mg/l (rat)

- Primary irritant effect:**
- on the skin:** Based on available data, the classification criteria are not met.
- on the eye:** Based on available data, the classification criteria are not met.
- Sensitization:** Based on available data, the classification criteria are not met.
- Additional toxicological information:**
- Carcinogenic categories**
- IARC (International Agency for Research on Cancer)**
- ethanol: 1
- NTP (National Toxicology Program)**
- None of the ingredients is listed.

Ecological information

- 12.1. **Toxicity**
- Aquatic toxicity:**
- 64-17-5 ethanol
- LC₅₀ 9268 - 14221 mg / l / 48h (water flea - Daphnia)
- 8150 mg / l / 48h (gold orfw - Leuciscus idus)
- 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.
- Additional ecological information:**
- General notes:**
- Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.
- 12.5. **Results of PBT and vPvB assessment**
- PBT:** Not applicable.
- vPvB:** Not applicable.
- 12.6. **Other adverse effects** No further relevant information available.

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Disposal considerations

- **13.1. Waste treatment methods**
- **Recommendation:**
Hand over to hazardous waste disposers.
Must not be disposed of together with household garbage. Do not allow product to reach sewage system.
- **Uncleaned packagings:**
- **Recommendation:**
Empty contaminated packagings thoroughly. They can be recycled after thorough and proper cleaning.
- **Recommended cleansing agent:** Water, if necessary with cleansing agents.

Transport information

- **14.1. UN-Number**
- **IMDG, IATA** UN1170
- **14.2. UN proper shipping name**
- **DOT, IMDG, IATA** ETHANOL, solution
- **DOT, IMDG, IATA**
- **Class** 3 Flammable liquids
- **Label** 3
- **14.4. Packing group**
- **DOT, IMDG, IATA** II
- **14.5. Environmental hazards:**
- **Marine pollutant:** No
- **14.6. Special precautions for user** Warning: Flammable liquids
- **EMS Number:** F-E,S-D
- **14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code** Not applicable.
- **UN "Model Regulation":** UN 1170 ETHANOL MIXTURE, 3, II

Regulatory information

- **15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**
See position no 2 - Hazards Identification
- **TSCA (Toxic Substances Control Act) - USA:**
64-17-5 ethanol
- **DSL (Canadian Domestic Substance List) - Canada:**
64-17-5 ethanol
- **National regulations:**
- **VOC - Volatile Organic Compounds**
- **VOC - Content: [g/L]** 672.4 g/l
- **VOC - Volatile organic compounds: content [mass-%]** 82.00 %
- **US (40CFR part59): VOC content [g / L]** 672.4 g/l / 5.61 lb/gl
- **CDN: WHMIS-controlled material**
Division 2 - Materials Causing Other Toxic Effects
Subdivision B - Toxic Materials
- **15.2. Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

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.

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· **USA: Relevant labels and warnings** HAZCOM LABEL: CAUTION! SUSPECT CANCER HAZARD

· **Relevant phrases**

H225 Highly flammable liquid and vapour.

H350 May cause cancer.

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

· **Contact:** Dr. Wolfgang Stüber

· **Abbreviations and acronyms:**

ICAO: International Civil Aviation Organisation

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)

NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Materials Identification System (USA)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

· *** Data compared to the previous version altered. -**

CDN