



Material Safety Data Sheet selon ISO/DIS 11014

Printing date 05/20/2023

Version-No. 1

Reviewed on 05/20/2023

Identification

· **1.1. Product identifier**

· Trade name / Article No: **KLEIBERIT 882.9**

· Application of the substance / the mixture Cleaning agent/ Cleaner

· **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.

Eye Irrit. 2A H319 Causes serious eye irritation.

Carc. 1A H350 May cause cancer.

STOT SE 3 H336 May cause drowsiness or dizziness.

· **2.2. Label elements**

· **Hazard pictograms**



GHS02 GHS07 GHS08

· **Signal word** Danger

· **Hazard-determining components of labeling:**

ethanol

acetone

· **Hazard statements**

H225 Highly flammable liquid and vapour.

H319 Causes serious eye irritation.

H350 May cause cancer.

H336 May cause drowsiness or dizziness.

· **Precautionary statements**

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P261 Avoid breathing mist/vapours/spray.

P280 Wear protective gloves / eye protection / face protection.

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P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337+P313 If eye irritation persists: Get medical advice/attention.

P403+P233 Store in a well-ventilated place. Keep container tightly closed.

· NFPA-ratings (scale 0 - 4) - USA:



Health = 1

Fire = 3

Reactivity = 0

· HMIS-ratings (scale 0 - 4) - USA:



Health = 1

Fire = 3

Reactivity = 0

· WHMIS Classes, Divisions and Subdivisions - Canada

B2 - Flammable liquid

D2B - Toxic material causing other toxic effects



· **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		75-90% w/w
RTECS: KQ 6300000 Flam. Liq. 2, H225; Carc. 1A, H350		
CAS: 67-64-1 acetone		10-25% w/w
RTECS: AL 3150000 Flam. Liq. 2, H225; Eye Irrit. 2, H319; STOT SE 3, H336		

· **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:** 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.

· **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.

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Fire-fighting measures

- **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.
- **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.
- **6.2. Environmental precautions:**
Prevent seepage into sewage system, workpits and cellars.
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**
Enclosure or extractor facilities are required.
Ensure good ventilation. This can be achieved by using a local exhaustion or general exhaust system. If these measures are insufficient to keep the solvent vapour concentration below the workplace limit, wear an adequate respiratory protective device.
Or use outdoors with adequate ventilation.
Wear suitable respiratory protective device when decanting larger quantities without extractor facilities.
Handle the substance preferably in closed system
Prevent formation of aerosols.
Waste air is to be released into the atmosphere only via suitable separators.
Wear protective gloves/protective clothing/eye protection/face protection.
Appropriate regular employee training.
Conduct spray applications in a ventilated booth or in an exhausted enclosure. Or as an alternative, ensure an adequate level of controlled ventilation (10 to 15 air changes per hour) and wear a respiratory protective device according to EN140 with filter type AX or better.
- **7.2. Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:**
Store in a cool location.
Store outdoors.
- **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.

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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:**

· **Ingredients with biological limit values:**

67-64-1 acetone

BEI (USA) 50 mg/L

Medium: urine

Time: end of shift

Parameter: Acetone (nonspecific)

· **CAS No. Designation of material % Type Value Unit**

64-17-5 ethanol

EL (USA)

Short-term value: 1000 ppm

EV (USA)

Long-term value: 1.900 mg/m³, 1.000 ppm

PEL (USA)

Long-term value: 1900 mg/m³, 1000 ppm

REL (USA)

Long-term value: 1900 mg/m³, 1000 ppm

TLV (USA)

Short-term value: 1880 mg/m³, 1000 ppm

67-64-1 acetone

EL (USA)

Short-term value: 500 ppm

Long-term value: 250 ppm

EV (USA)

Short-term value: 750 ppm

Long-term value: 500 ppm

PEL (USA)

Long-term value: 2400 mg/m³, 1000 ppm

REL (USA)

Long-term value: 590 mg/m³, 250 ppm

TLV (USA)

Short-term value: 1187 mg/m³, 500 ppm

Long-term value: 594 mg/m³, 250 ppm

BEI

IOELV (European Union) Long-term value: 1210 mg/m³, 500 ppm

· **8.2. Exposure controls**

limit the exposure to:

8 hours

· **Personal protective equipment:**

· **General protective and hygienic measures:** Avoid contact with the eyes.

· **Breathing equipment:** Not necessary if room is well-ventilated.

· **Protection of hands:** After use of gloves apply skin-cleaning agents and skin cosmetics.

· **Eye protection:** Tightly sealed goggles

Physical and chemical properties

· **9.1. Information on basic physical and chemical properties**

· **General Information**

· **Appearance:**

Form:

Liquid

Color:

Green

· **Odor:**

Solvent-like

· **Odor threshold:**

Not determined.

· **pH-value:**

Not determined.

· **Change in condition**

Melting point/Melting range:

Undetermined.

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Boiling point/Boiling range:	55 °C (131 °F)
· Flash Point:	-17 °C (1 °F)
· Flammability (solid, gaseous):	Not applicable.
· Ignition Temperature:	425 °C (797 °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:	2.6 Vol %
Upper:	15.0 Vol %
· Vapor Pressure at 20 °C (68 °F):	247 hPa (185 mm Hg)
· Density at 20 °C (68 °F):	0.79 g/cm ³ (6.593 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.
Organic solvents:	100.0 %
· 9.2. Other information	No further relevant information available.

Stability and reactivity

- **10.1. Reactivity** 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.

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	LD ₅₀	6200 mg/kg (rat)
Dermal	LD ₅₀	20000 mg/kg (rabbit)
Inhalative	LC ₅₀ /4 h	124.7 mg/l (rat)

67-64-1 acetone

Oral	LD ₅₀	5800 mg/kg (rat)
Dermal	LD ₅₀	1700 - 10700 mg/kg (rat)
		20000 mg/kg (rbt)
Inhalative	LC ₅₀ /4 h	>20 mg/l (rat)

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- **Primary irritant effect:**
- **on the skin:** Based on available data, the classification criteria are not met.
- **on the eye:**
Causes serious eye irritation.
- **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 10000 mg / l / 48h (water flea - Daphnia)
8150 mg / l / 48h (gold orfw - Leuciscus idus)

67-64-1 acetone
LC₅₀ 12600 mg / l / 48h (water flea - Daphnia)
- **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. Other adverse effects** No further relevant information available.

Disposal considerations

- **13.1. Waste treatment methods**
- **Recommendation:**
Must not be disposed of together with household garbage. Do not allow product to reach sewage system.
Must be specially treated adhering to official regulations.
- **Uncleaned packagings:**
- **Recommendation:**
Non contaminated packagings can be used for recycling.
Empty contaminated packagings thoroughly. Disposal must be made according to official regulations.
- **Recommended cleansing agent:** Water, if necessary with cleansing agents.

Transport information

- **14.1. UN-Number**
- **IMDG, IATA** UN1993
- **14.2. UN proper shipping name**
- **DOT** Flammable liquids, n.o.s. (Ethanol, Acetone)
- **IMDG** FLAMMABLE LIQUID, N.O.S. (ETHANOL (ETHYL ALCOHOL), ACETONE)
- **IATA** FLAMMABLE LIQUID, N.O.S. (ETHANOL, ACETONE)
- **DOT, IMDG, IATA**
- **Class** 3 Flammable liquids
- **Label** 3

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- **14.4. Packing group**
 - **DOT, IMDG, IATA** II
 - **14.5. Environmental hazards:** Not applicable.
 - **14.6. Special precautions for user** Warning: Flammable liquids
 - **EMS Number:** F-E,S-E
 - **14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code** Not applicable.
-
- **IMDG**
 - **Limited quantities (LQ)** 1L
 - **Excepted quantities (EQ)** Code: E2
Maximum net quantity per inner packaging: 30 ml
Maximum net quantity per outer packaging: 500 ml
 - **UN "Model Regulation":** UN 1993 FLAMMABLE LIQUIDS, N.O.S. (ETHANOL, ACETONE), 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
67-64-1 acetone
- **DSL (Canadian Domestic Substance List) - Canada:**
All ingredients are listed.
- **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.

- **USA: Relevant labels and warnings** HAZCOM LABEL: CAUTION! SUSPECT CANCER HAZARD
- **Relevant phrases**
H225 Highly flammable liquid and vapour.
H319 Causes serious eye irritation.
H336 May cause drowsiness or dizziness.
H350 May cause cancer.
- **Department issuing SDS:** Safety & Environment
- **Contact:** Dr. Wolfgang Stüber
- **Abbreviations and acronyms:**
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