



Safety Data Sheet

according to 1907/2006/EC, Article 31

Printing date 13.10.2008

Revision: 13.10.2008

1 Identification of the substance/preparation and of the company/undertaking

- **Product details**
- **Trade name / Article-No:** KLEIBERIT *Primer 836.1*
- **Application of the substance / the preparation** Priming
- **Further information obtainable from:**
Telefon: +49-(0)7244-62-0
FAX: +49-(0)7244-700-0
- **Information in case of emergency:** hse@kleiberit.com

2 Hazards identification

- **Hazard description:**
Xi Irritant
F Highly flammable
N Dangerous for the environment
- **Information concerning particular hazards for human and environment:**
The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.
Has a narcotizing effect.
R 11 Highly flammable.
R 36/38 Irritating to eyes and skin.
R 51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R 67 Vapours may cause drowsiness and dizziness.

3 Composition/information on ingredients

- **Chemical characterization**
- **Description:** Mixture of substances listed below with nonhazardous additions.
- **Dangerous components:**

CAS NO.	Description	Index R-phrases	%
141-78-6	ethyl acetate Xi; R 36-66-67		25-50%
	Hexan, Isomerengemisch (mit weniger als 5% n-Hexan EEC No 203-777-6) Xn, Xi, F, N; R 11-38-51/53-65-67		10-25%
142-82-5	Heptan Xn, Xi, F, N; R 11-38-50/53-65-67		10-25%
110-82-7	Cyclohexan Xn, Xi, F, N; R 11-38-50/53-65-67		5-10%

- **Additional information:** For the wording of the listed risk phrases refer to section 16.

4 First-aid measures

- **After inhalation:**
Take affected persons into fresh air and keep quiet.
Seek immediate medical advice.
In case of unconsciousness place patient stably in side position for transportation.
- **After skin contact:**
If skin irritation continues, consult a doctor.
Immediately wash with water and soap and rinse thoroughly.

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- **After eye contact:**
Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- **After swallowing:** Do not induce vomiting; call for medical help immediately.

5 Fire-fighting measures

- **Suitable extinguishing agents:**
CO₂, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **For safety reasons unsuitable extinguishing agents:** Water with full jet
- **Protective equipment:** Wear self-contained respiratory protective device.

6 Accidental release measures

- **Person-related safety precautions:** Wear protective equipment. Keep unprotected persons away.
- **Measures for environmental protection:**
Prevent seepage into sewage system, workpits and cellars.
Inform respective authorities in case of seepage into water course or sewage system.
Do not allow to enter sewers/ surface or ground water.
- **Measures for cleaning/collecting:**
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Ensure adequate ventilation.

7 Handling and storage

- **Handling:**
 - **Information for safe handling:** Ensure good ventilation/exhaustion at the workplace.
 - **Information about fire - and explosion protection:**
Keep ignition sources away - Do not smoke.
Protect against electrostatic charges.
- **Storage:**
 - **Requirements to be met by storerooms and receptacles:** Store in a cool location.
 - **Further information about storage conditions:**
Keep receptacle tightly sealed.
Store in cool, dry conditions in well sealed receptacles.

8 Exposure controls/personal protection

- **Additional information about design of technical facilities:** No further data; see item 7.

- **Ingredients with limit values that require monitoring at the workplace:**

CAS No.	Designation of material	%	Type	Value	Unit
141-78-6 ethyl acetate					
	OEL (Japan)			720 mg/m ³ , 200 ppm	
	AGW (Germany)			1500 mg/m ³ , 400 ppm	
				2(l);DFG, Y	
	PEL (USA)			1400 mg/m ³ , 400 ppm	
	REL (USA)			1400 mg/m ³ , 400 ppm	
	TLV (USA)			1440 mg/m ³ , 400 ppm	
142-82-5 Heptan					

141-78-6 ethyl acetate

OEL (Japan) 720 mg/m³, 200 ppmAGW (Germany) 1500 mg/m³, 400 ppm

2(l);DFG, Y

PEL (USA) 1400 mg/m³, 400 ppmREL (USA) 1400 mg/m³, 400 ppmTLV (USA) 1440 mg/m³, 400 ppm

142-82-5 Heptan

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OEL (Japan)	820 mg/m ³ , 200 ppm
MAK (Germany)	2100 mg/m ³ , 500 ppm vgl. Abschn. XII
PEL (USA)	2000 mg/m ³ , 500 ppm
REL (USA)	Short-term value: C 1800* mg/m ³ , C 440* ppm Long-term value: 350 mg/m ³ , 85 ppm *15-min
TLV (USA)	Short-term value: 2050 mg/m ³ , 500 ppm Long-term value: 1640 mg/m ³ , 400 ppm

110-82-7 Cyclohexan

OEL (Japan)	520 mg/m ³ , 150 ppm
AGW (Germany)	700 mg/m ³ , 200 ppm 4(II);DFG
PEL (USA)	1050 mg/m ³ , 300 ppm
REL (USA)	1050 mg/m ³ , 300 ppm
TLV (USA)	344 mg/m ³ , 100 ppm

- **Additional information:** The lists valid during the making were used as basis.

- **Personal protective equipment:**

- **General protective and hygienic measures:**

- Keep away from foodstuffs, beverages and feed.
 - Immediately remove all soiled and contaminated clothing
 - Wash hands before breaks and at the end of work.
 - Do not inhale gases / fumes / aerosols.
 - Avoid contact with the eyes and skin.

- **Respiratory protection:**

- In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

- **Protection of hands:** Protective gloves

- **Material of gloves**

- Nitrile rubber - NBR (0.35 mm)
 - Fluorocarbon rubber (Viton) - FCM (0.4 mm)

- **Not suitable are gloves made of the following materials:** Chloroprene rubber - CR (0.5 mm)

- **Eye protection:** Tightly sealed goggles

9 Physical and chemical properties

- **General Information**

- **Form:** Fluid
 - **Colour:** Dark yellow
 - **Odour:** Petrol-like

- **Change in condition**

- **Melting point/Melting range:** Undetermined.
 - **Boiling point/Boiling range:** 76°C

- **Flash point:** -12°C

- **Ignition temperature:** 215°C

- **Self-igniting:** Product is not selfigniting.

- **Danger of explosion:** Product is not explosive. However, formation of explosive air/vapour mixtures are possible.

- **Explosion limits:**

- **Lower:** 1,1 Vol %
 - **Upper:** 11,5 Vol %

- **Vapour pressure at 20°C:** 97 hPa

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- **Density at 20°C:** 0,85 g/cm³
- **Solubility in / Miscibility with**
 - **water:** Not miscible or difficult to mix.
- **Viscosity:**
 - **Dynamic at 20°C:** 20 mPas
Method: Brookfield RVT
- **Organic solvents:** 85 %

10 Stability and reactivity

- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **Dangerous reactions** No dangerous reactions known.
- **Dangerous decomposition products:** No dangerous decomposition products known.

11 Toxicological information

- **Acute toxicity:**
 - **LD/LC50 values relevant for classification:**
- 141-78-6 ethyl acetate**
 - Oral LD₅₀ 4935 mg/kg (rbt)
 - Inhalative LC₅₀/4 h 1600 mg/l (rat)
- 110-82-7 Cyclohexan**
 - Oral LD₅₀ 12705 mg/kg (rat)
 - **Primary irritant effect:**
 - **on the skin:** Irritant to skin and mucous membranes.
 - **on the eye:** Irritating effect.
 - **Sensitization:** No sensitizing effects known.
- **Additional toxicological information:**
The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version:
Irritant

12 Ecological information

- **Ecotoxicological effects:**
 - **Remark:** Toxic for fish
- **General notes:**
Do not allow product to reach ground water, water course or sewage system.
Toxic for aquatic organisms
Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water

13 Disposal considerations

- **Recommendation**
After prior treatment product has to be disposed of in an incinerator for hazardous waste adhering to the regulations pertaining to the disposal of particularly hazardous waste.
Must not be disposed together with household garbage. Do not allow product to reach sewage system.
- **European waste catalogue**
14 06 03 other solvents and solvent mixtures
- **Uncleaned packaging:**
 - **Recommendation:**
Empty contaminated packagings thoroughly. They may be recycled after thorough and proper cleaning.

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14 Transport information

- **Land transport ADR/RID (cross-border)**
 - **ADR/RID class:** 3 Flammable liquids.
 - **Danger code (Kemler):** 33
 - **UN-Number:** 1866
 - **Packaging group:** II
 - **Hazard label:** 3
 - **Description of goods:** 1866 HARZLÖSUNG
- **Maritime transport IMDG:**
 - **IMDG Class:** 3
 - **UN Number:** 1866
 - **Label:** 3
 - **Packaging group:** II
 - **EMS Number:** F-E,S-E
 - **Marine pollutant:** No
 - **Proper shipping name:** RESIN SOLUTION
- **Air transport ICAO-TI and IATA-DGR:**
 - **ICAO/IATA Class:** 3
 - **UN/ID Number:** 1866
 - **Label:** 3
 - **Packaging group:** II
 - **Proper shipping name:** RESIN SOLUTION

15 Regulatory information

- **Labelling according to EU guidelines:**
The product has been classified and marked in accordance with EU Directives / Ordinance on Hazardous Materials.
- **Code letter and hazard designation of product:**
 - Xi Irritant
 - F Highly flammable
 - N Dangerous for the environment
- **Risk phrases:**
 - 11 Highly flammable.
 - 36/38 Irritating to eyes and skin.
 - 51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
 - 67 Vapours may cause drowsiness and dizziness.
- **Safety phrases:**
 - 9 Keep container in a well-ventilated place.
 - 16 Keep away from sources of ignition - No smoking.
 - 23 Do not breathe vapour.
 - 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
 - 33 Take precautionary measures against static discharges.
 - 57 Use appropriate container to avoid environmental contamination.
- **National regulations:**
 - **(EU) VOC - Volatile Organic Compounds (Directive 13/1999/EC)**
 - **VOC - portion [g/L]:** 722,5 g/l
 - **VOC - portion [mass-%]:** 85,00 %

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.

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- 11 Highly flammable.
- 36 Irritating to eyes.
- 38 Irritating to skin.
- 50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- 51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- 65 Harmful: may cause lung damage if swallowed.
- 66 Repeated exposure may cause skin dryness or cracking.
- 67 Vapours may cause drowsiness and dizziness.

· Department issuing MSDS: Safety & Environment**· Contact:** Dr. Wolfgang Stüber

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