

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 11.11.2022

Version-No. 19 (replaces version 18)

Revision: 11.11.2022




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

- **1.1. Product identifier**
- Trade name / Article-No: **KLEIBERIT 114.5**
- UFI: SUYR-A0VG-P00N-YSE3
- **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
D - 76356 Weingarten / Baden
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**

Flam. Liq. 2	H225 Highly flammable liquid and vapour.
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.
STOT SE 3	H336 May cause drowsiness or dizziness.
Aquatic Chronic 2	H411 Toxic to aquatic life with long lasting effects.
- **2.2. Label elements**
- **Hazard pictograms**



 GHS02 GHS07 GHS09
- **Signal word** Danger
- **Hazard-determining components of labelling:**
Acetic ether
4-tert-butylphenol formaldehyde resin
hydrocarbons, C6-C7, n-alkanes, isoalkanes, cycloalkanes
- **Hazard statements**
H225 Highly flammable liquid and vapour.
H315 Causes skin irritation.
H319 Causes serious eye irritation.

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H317 May cause an allergic skin reaction.
 H336 May cause drowsiness or dizziness.
 H411 Toxic to aquatic life with long lasting effects.

Precautionary statements

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
 P271 Use only outdoors or in a well-ventilated area.
 P273 Avoid release to the environment.
 P280 Wear protective gloves / eye protection.
 P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P333+P313 If skin irritation or rash occurs: Get medical advice/attention.

2.3. Other hazards
Results of PBT and vPvB assessment

· **PBT:** Not applicable.

· **vPvB:** Not applicable.

Determination of endocrine-disrupting properties

78-93-3 2-butanone: 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: 92128-66-0 Reg.nr.: 01-2119475514-35-XXXX	hydrocarbons, C6-C7, n-alkanes, isoalkanes, cycloalkanes Flam. Liq. 2, H225; Asp. Tox. 1, H304; Aquatic Chronic 2, H411; Skin Irrit. 2, H315; STOT SE 3, H336	≥25-≤30%
CAS: 141-78-6 Reg.nr.: 01-2119475103-46-XXXX	Acetic ether Flam. Liq. 2, H225; Eye Irrit. 2, H319; STOT SE 3, H336, EUH066	20-30%
CAS: 78-93-3 Reg.nr.: 02-2119752535-35-XXXX 01-2119457290-43-XXXX	2-butanone Flam. Liq. 2, H225; Eye Irrit. 2, H319; STOT SE 3, H336, EUH066	≥10-<20%
CAS: 25085-50-1	4-tert-butylphenol formaldehyde resin Skin Sens. 1, H317	≥1-≤3%
CAS: 8050-09-7	rosin Skin Sens. 1, H317	≥1-<2%
CAS: 68610-51-5	Phenol, 4-methyl-, reaction products with dicyclopentadiene and isobutylene Repr. 2, H361d; Aquatic Chronic 4, H413	<0.5%
CAS: 1314-13-2 Reg.nr.: 01-2119463881-32-XXXX	zinc oxide Aquatic Acute 1, H400; Aquatic Chronic 1, H410	≥0.025-<0.25%

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EU

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- **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. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.

In case of unconsciousness place patient stably in side position for transportation.

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:**

Do not induce vomiting; call for medical help immediately.

Call for a doctor immediately.

4.2. Most important symptoms and effects, both acute and delayed

Headache

Drowsiness

Dizziness

Nausea

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.

For safety reasons unsuitable extinguishing agents: Water with full jet**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.

Keep away from ignition sources.

6.2. Environmental precautions:

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.

Do not allow to penetrate the ground/soil.

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.

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- 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

- Appropriate regular employee training.
- Handle the substance preferably in closed system
- Enclosure or extractor facilities are required.
- Not less than 5 -15 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.
- Spraying: in vented cabin with laminar air flow
- Wear protective gloves/protective clothing/eye protection/face protection.
- Wear suitable respiratory protective device when decanting larger quantities without extractor facilities.
- Use only in well ventilated areas.
- regular check up, maintenance and cleaning of equipment and machines
- Application temperature is not higher than 20°C above the surrounding temperature
- Avoid contact with the skin.
- Use drum pumps or pour from the container carefully
- Absorb spilled amount immediately.
- Avoid taking samples by immersion
- Handling procedures must be well documented.
- additional to professional application with multiple and/or significant contact
- limit the exposure to 4 hours
- Wear suitable protective gloves and protective goggles /face protection during work.
- have emergency plan in place, to minimize impact
- Do not allow to reach ground water, water bodies or sewage system.
- Open and handle receptacle with care.
- Clean the pipe before decoupling
- Close the container immediately after usage.

Information about fire - and explosion protection:

- Keep ignition sources away - Do not smoke.
- >> **Protect against electrostatic charges.** <<
- Use explosion-proof apparatus / fittings and spark-proof tools.

General protective and hygienic measures: Keep good industrial hygiene.**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.
- Prevent any seepage into the ground.

Information about storage in one common storage facility: Observe the national regulations.**Further information about storage conditions:**

- Store in cool, dry conditions in well sealed receptacles.
- Store only outside or in explosion proof rooms.

7.3. Specific end use(s) No further relevant information available.*(Contd. on page 5)*

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SECTION 8: Exposure controls/personal protection

· 8.1. Control parameters

· Ingredients with limit values that require monitoring at the workplace:

· DNELs

92128-66-0 hydrocarbons, C6-C7, n-alkanes, isoalkanes, cycloalkanes

Dermal DNEL 773 mg/kg (human being)

Inhalative DNEL 2,035 mg/m³ (human being)

141-78-6 Acetic ether

Dermal DNEL long term 63 mg/kg (human being)

Inhalative DNEL short term 1,468 mg/m³ (human being)DNEL long term 734 mg/m³ (human being)

78-93-3 2-butanone

Dermal DNEL long term 1,161 mg/kg (human being)

Inhalative DNEL long term 600 mg/m³ (human being)

1314-13-2 zinc oxide

Dermal DNEL long term 83.3 mg/kg (human being)

Inhalative DNEL long term 5 mg/m³ (human being)

· PNECs

141-78-6 Acetic ether

PNEC- Freshwater 0.26 mg/l (not specified)

PNEC-seawater 0.026 mg/l (not specified)

PNEC-periodic release 1.65 mg/l (not specified)

PNEC-Freshwater sediment 1.25 mg/kg (not specified)

PNEC-Seawater sediment 0.125 mg/kg (not specified)

PNEC-soil 0.148 mg/kg (not specified)

PNEC-wastewater treatment plant 650 mg/l (not specified)

78-93-3 2-butanone

PNEC- Freshwater 55.8 mg/l (not specified)

PNEC-seawater 55.8 mg/l (not specified)

PNEC-Freshwater sediment 284.7 mg/kg (not specified)

PNEC-Seawater sediment 284.7 mg/kg (not specified)

PNEC-soil 22.5 mg/kg (not specified)

PNEC-wastewater treatment plant 709 mg/l (not specified)

1314-13-2 zinc oxide

PNEC- Freshwater 0.0206 mg/l (not specified)

PNEC-seawater 0.0061 mg/l (not specified)

PNEC-Freshwater sediment 117.8 mg/kg (not specified)

PNEC-Seawater sediment 56.5 mg/kg (not specified)

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PNEC-soil 35.6 mg/kg (not specified)

PNEC-wastewater treatment plant 0.052 mg/l (not specified)

· **Ingredients with biological limit values:**

78-93-3 2-butanone

BGW (Germany) 2 mg/l

Untersuchungsmaterial: Urin

Probennahmezeitpunkt: Expositionsende bzw. Schichtende

Parameter: 2-Butanon

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

141-78-6 Acetic ether

IOELV (INT) Short-term value: 1468 mg/m³, 400 ppmLong-term value: 734 mg/m³, 200 ppmAGW (Germany) Long-term value: 730 mg/m³, 200 ppm

2(l);DFG, EU, Y

78-93-3 2-butanone

IOELV (INT) Short-term value: 900 mg/m³, 300 ppmLong-term value: 600 mg/m³, 200 ppmAGW (Germany) Long-term value: 600 mg/m³, 200 ppm

1(l);DFG, EU, H, Y

8050-09-7 rosin

MAK (Germany) vgl.Abschn.IV

· **8.2. Exposure controls**

limit the exposure to:

8 hours

additional to professional application with multiple and/or significant contact

limit the exposure to 4 hours

· **Appropriate engineering controls** No further data; see item 7.

· **Individual protection measures, such as personal protective equipment**

· **General protective and hygienic measures:** Do not inhale gases / fumes / aerosols.

· **Respiratory protection:**

Use suitable respiratory protective device in case of insufficient ventilation:

At spray application respiratory protection must be worn.

Filter A/P2 (EN 14387)

· **Hand protection** Protective gloves

· **Material of gloves** A Nitrile rubber - NBR: AlphaTec® (> 0,4 mm)

· **Eye/face protection** Safety glasses

· **Body protection:** Protective work clothing

· **Environmental exposure controls**

The floor surface in the facility has to be sealed.

Waste air is to be released into the atmosphere only via suitable separators.

· **Risk management measures**

Ensure that all wastewater is collected and treated in a wastewater treatment plant.

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SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

General Information

· Physical state	Fluid
· Colour:	Light brown
· Odour:	Fruit-like
· Odour threshold:	Not determined.
· Melting point/freezing point:	Undetermined.
· Boiling point or initial boiling point and boiling range	60 °C
· Flammability	Highly flammable.
· Lower and upper explosion limit	
· Lower:	1.8 Vol %
· Upper:	11.5 Vol %
· Flash point:	-25 °C
· Ignition temperature:	460 °C
· Decomposition temperature:	Not determined.
· pH	Not determined.
· Viscosity:	
· Kinematic viscosity	Not determined.
· Dynamic at 20 °C:	ca. 2.800 mPas
· Solubility	
· water:	Not miscible or difficult to mix.
· Partition coefficient n-octanol/water (log value)	Not determined.
· Vapour pressure at 20 °C:	105 hPa
· Density and/or relative density	
· Density at 20 °C:	ca. 0.87 g/cm ³
· Relative density	Not determined.
· Vapour density	Not determined.

9.2. Other information

· Appearance:	
· Form:	Fluid
· Important information on protection of health and environment, and on safety.	
· Auto-ignition temperature:	Product is not selfigniting.
· Explosive properties:	Product is not explosive. However, formation of explosive air/vapour mixtures are possible.
· Change in condition	
· Evaporation rate	Not determined.
· Information with regard to physical hazard classes	
· Explosives	Void
· Flammable gases	Void
· Aerosols	Void
· Oxidising gases	Void
· Gases under pressure	Void
· Flammable liquids	Highly flammable liquid and vapour.
· Flammable solids	Void
· Self-reactive substances and mixtures	Void

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· 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** 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/LC₅₀ values relevant for classification:**

92128-66-0 hydrocarbons, C6-C7, n-alkanes, isoalkanes, cycloalkanes

Oral	LD ₅₀	>2,000 mg/kg (rat)
Dermal	LD ₅₀	>2,000 mg/kg (rat)
Inhalative	LC ₅₀ /4 h	>25.2 mg/l (rat)

141-78-6 Acetic ether

Oral	LD ₅₀	4,934 mg/kg (rabbit) Methode: OECD 401
Dermal	LD ₅₀	>20,000 mg/kg (rabbit)
Inhalative	LC ₅₀ /4 h	29.3 mg/l (rat)

78-93-3 2-butanone

Oral	LD ₅₀	>2,193 mg/kg (rat)
Dermal	LD ₅₀	>5,000 mg/kg (rft)
Inhalative	LC ₅₀ /4 h	34 mg/l (rat)
	LC ₅₀ /4 h	>5,000 ppm (rat)

8050-09-7 rosin

Oral	LD ₅₀	2,800 mg/kg (rat)
Dermal	LD ₅₀	>2,000 mg/kg (rat)

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Trade name / Article-No: **KLEIBERIT 114.5***(Contd. of page 8)***1314-13-2 zinc oxide**Oral LD₅₀ >5,000 mg/kg (rat)Inhalative LC₅₀ /4 h >5,700 mg/l (rat)

- **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** Based on available data, the classification criteria are not met.
- **STOT-single exposure** May cause drowsiness or dizziness.
- **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**
- **Endocrine disrupting properties**

78-93-3 2-butanone: List II

SECTION 12: Ecological information

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

92128-66-0 hydrocarbons, C6-C7, n-alkanes, isoalkanes, cycloalkanesLC₅₀ 11.4 mg / l / 96h (Fathead minnow - Pimephales promelas)EC₅₀ 3 mg / l / 48h (water flea - daphnia)EC₅₀ 30-100 mg / l / 72h (green algae-Ps.kirchneriella subcapitata)**141-78-6 Acetic ether**LC₅₀ 230 mg / l / 96h (fish)EC₅₀ 5,600 mg / l / 48h (algae)

610 mg / l / 48h (water flea - daphnia) (DIN 38412)

78-93-3 2-butanoneLC₅₀ 2,990 mg / l / 96h (Fathead minnow - Pimephales promelas)EC₅₀ 308 mg / l / 48h (water flea - daphnia)EC₅₀ 1,972 mg / l / 72h (green algae-Ps.kirchneriella subcapitata)**8050-09-7 rosin**LC₅₀ <10 mg / l / 96h (Zebrafish - Danio rerio)EC₅₀ 5.4 mg / l / 48h (water flea - daphnia)EC₅₀ 400 mg / l / 72h (green algae-Ps.kirchneriella subcapitata)**1314-13-2 zinc oxide**LC₅₀ 1.31 mg / l / 96h (Fathead minnow - Pimephales promelas)EC₅₀ 0.413 mg / l / 48h (water flea - daphnia)EC₅₀ 0.136 mg / l / 72h (algae)IC₅₀ 0.1-1 mg / l / 72h (algae)

- **12.2. Persistence and degradability** No further relevant information available.

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- **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.
- **12.6. Other adverse effects**
- **Remark:** Harmful to fish
- **Behaviour in sewage processing plants:**
- **Remark:**
At correct sewage disposal in small quantities to biological sewage plants failures of the activated sludge are not expected.
- **Additional ecological information:**
- **General notes:**
Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water
Avoid transfer into the environment.
Do not allow product to reach ground water, water course or sewage system.
Danger to drinking water if even small quantities leak into the ground.
Toxic for aquatic organisms

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.
Must be specially treated adhering to official regulations.
- **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.
minimize waste

SECTION 14: Transport information

- **14.1. UN number or ID number**
- **ADR, IMDG, IATA** UN1133
- **14.2. UN proper shipping name**
- **DOT** Adhesives
- **ADR** 1133 ADHESIVES, ENVIRONMENTALLY HAZARDOUS
- **IMDG** ADHESIVES, MARINE POLLUTANT
- **IATA** ADHESIVES
- **14.3. Transport hazard class(es)**
- **Class** 3 Flammable liquids.
- **Label** 3
- **14.4. Packing group**
- **ADR, IMDG, IATA** II
- **14.5. Environmental hazards:** Product contains environmentally hazardous substances:
ALKANES C6-C7

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· Marine pollutant:	Symbol (fish and tree)
· Special marking (ADR):	Symbol (fish and tree)
· 14.6. Special precautions for user	Warning: Flammable liquids.
· Hazard identification number (Kemler code):	33
· EMS Number:	F-E,S-D
· Stowage Category	B
· 14.7. Maritime transport in bulk according to IMO instruments	Not applicable.
<hr/>	
· ADR	
· Limited quantities (LQ)	5L
· Excepted quantities (EQ)	Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
· Transport category	2
· Tunnel restriction code	D/E
· Remarks:	Transporting in accordance to 2.2.3.1.4 ADR (viscous liquids)
<hr/>	
· IMDG	
· Limited quantities (LQ)	5L
· Excepted quantities (EQ)	Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
· Remarks:	Transporting in accordance to 2.3.2.2 IMDG (viscous liquids)
<hr/>	
· IATA	
· Remarks:	Transporting in accordance to 3.3.3.1.1 IATA DGR (viscous liquids) PAS < 30L; CAO < 100L

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
P5c FLAMMABLE LIQUIDS
- **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.

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- **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**
78-93-3 2-butanone: 3
108-88-3 toluene: 3
- **Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors**
78-93-3 2-butanone: 3
108-88-3 toluene: 3
- **National regulations:**
- **D: Waterhazard class** Water hazard class 2 (Self-assessment): hazardous for water.
- **Other regulations, limitations and prohibitive regulations:** Restricted to professional users.
- **VOC - 2010/75/EU [g/L]:** <650.0 g/l
- **VOC - 2010/75/EU [%]:** <75.00 %
- **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.
- H304 May be fatal if swallowed and enters airways.
- H315 Causes skin irritation.
- H317 May cause an allergic skin reaction.
- H319 Causes serious eye irritation.
- H336 May cause drowsiness or dizziness.
- H361d Suspected of damaging the unborn child.
- H400 Very toxic to aquatic life.
- H410 Very toxic to aquatic life with long lasting effects.
- H411 Toxic to aquatic life with long lasting effects.
- H413 May cause long lasting harmful effects to aquatic life.
- EUH066 Repeated exposure may cause skin dryness or cracking.

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

- **Version number of previous version:** 18

- **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

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Safety data sheet
according to 1907/2006/EC, Article 31

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Trade name / Article-No: KLEIBERIT 114.5*(Contd. of page 12)*

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
Flam. Liq. 2: Flammable liquids – Category 2
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. 2: Reproductive toxicity – Category 2
STOT SE 3: Specific target organ toxicity (single exposure) – Category 3
Asp. Tox. 1: Aspiration hazard – Category 1
Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1
Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1
Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2
Aquatic Chronic 4: Hazardous to the aquatic environment - long-term aquatic hazard – Category 4

EU