

## Safety data sheet

### according to 1907/2006/EC, Article 31

Printing date 13.08.2017

Version number 20

Revision: 13.08.2017

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

- **1.1 Product identifier**
- **Trade name: UHU KONTAKT Kraftkleber flüssig (Tube) < 350 g**
- **1.2 Relevant identified uses of the substance or mixture and uses advised against**  
No further relevant information available.
- **Application of the substance / the mixture** Adhesives
- **1.3 Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**  
UHU GmbH & Co.KG  
Herrmannstraße 7  
D-77815 Bühl (Baden)  
Tel.: 0049-(0)7223-284-0  
email: info@uhu.boltongroup.de  
Fax: 0049-(0)7223-284-245
- **Further information obtainable from:** UHU QESH
- **1.4 Emergency telephone number:**  
Tel.: + 49 (0) 30/19240 (Notruf)  
Tel.: + 49 (0) 72 23/28 40

#### SECTION 2: Hazards identification

- **2.1 Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008**



GHS02 flame

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



GHS09 environment

Aquatic Chronic 2    H411 Toxic to aquatic life with long lasting effects.



GHS07

 Eye Irrit. 2      H319 Causes serious eye irritation.  
STOT SE 3      H336 May cause drowsiness or dizziness.

- **2.2 Label elements**
- **Labelling according to Regulation (EC) No 1272/2008**  
The product is classified and labelled according to the CLP regulation.
- **Hazard pictograms**



GHS02    GHS07    GHS09

- **Signal word** Danger

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- **Hazard-determining components of labelling:**  
ethyl acetate  
Kohlenwasserstoffe, C7, n-Alkane, Isoalkane, Cyclene
- **Hazard statements**  
H225 Highly flammable liquid and vapour.  
H319 Causes serious eye irritation.  
H336 May cause drowsiness or dizziness.  
H411 Toxic to aquatic life with long lasting effects.
- **Precautionary statements**  
P101 If medical advice is needed, have product container or label at hand.  
P102 Keep out of reach of children.  
P103 Read label before use.  
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P261 Avoid breathing dust/fume/gas/mist/vapours/spray.  
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.
- **Additional information:**  
Contains Rosin. May produce an allergic reaction.
- **2.3 Other hazards**
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.

### SECTION 3: Composition/information on ingredients

- **3.2 Mixtures**
- **Description:** Adhesive

- **Dangerous components:**

|   |  |        |
|---|--|--------|
| CAS: 141-78-6<br>EINECS: 205-500-4<br>Reg.nr.: 01-2119475103-46-XXXX  | ethyl acetate<br>⚠ Flam. Liq. 2, H225; ⚠ Eye Irrit. 2, H319; STOT SE 3, H336   | 25-50% |
| EC number: 927-510-4<br>Reg.nr.: 01-2119475515-33-005                 | Kohlenwasserstoffe, C7, n-Alkane, Isoalkane, Cyclene<br>⚠ Flam. Liq. 2, H225; ⚠ Asp. Tox. 1, H304;<br>⚠ Aquatic Chronic 2, H411; ⚠ STOT SE 3, H336 | 25-50% |
| CAS: 8050-09-7<br>EINECS: 232-475-7<br>Reg.nr.: 01-2119480418-32-xxxx | Rosin<br>⚠ Skin Sens. 1, H317  | <1%    |

- **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**
- **General information:** Immediately remove any clothing soiled by the product.
- **After inhalation:** Supply fresh air; consult doctor in case of complaints.
- **After skin contact:** Generally the product does not irritate the skin.

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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.
- **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:**  
CO<sub>2</sub>, 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**  
In case of fire, the following can be released:  
Hydrogen chloride (HCl)
- **5.3 Advice for firefighters**
- **Protective equipment:**  
Do not inhale explosion gases or combustion gases.  
No special measures required.

#### SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures**  
Ensure adequate ventilation
- **6.2 Environmental precautions:** Do not allow to enter sewers/ surface or ground water.
- **6.3 Methods and material for containment and cleaning up:**  
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).  
Send for recovery or disposal in suitable receptacles.  
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** No special precautions are necessary if used correctly.
- **Information about fire - and explosion protection:**  
Keep ignition sources away - Do not smoke.  
Protect against electrostatic charges.
- **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:** Not required.
- **Further information about storage conditions:**  
Keep container tightly sealed.

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- Store in cool, dry conditions in well sealed receptacles.
- **Storage class:** 3
- **7.3 Specific end use(s)** No further relevant information available.

### SECTION 8: Exposure controls/personal protection

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

#### · 8.1 Control parameters

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

##### 141-78-6 ethyl acetate

|               |  |
|---------------|--|
| IOELV (EU)    | Short-term value: 1468 mg/m <sup>3</sup> , 400 ppm<br>Long-term value: 734 mg/m <sup>3</sup> , 200 ppm |
| AGW (Germany) | Long-term value: 1500 mg/m <sup>3</sup> , 400 ppm<br>2(I);DFG, Y                                       |

##### 8050-09-7 Rosin

|               |               |
|---------------|---------------|
| MAK (Germany) | vgl.Abschn.IV |
|---------------|---------------|

#### · DNELs

##### 141-78-6 ethyl acetate

|            |   |                           |
|------------|---|---------------------------|
| Oral       | Verbraucher, Chronische Wirkungen, Verschlucken | 4.5 mg/kg ( )             |
| Dermal     | Verbraucher, Chronische Wirkungen, Hautkontakt  | 37 mg/kg ( )              |
| Inhalative | Verbraucher, Akute Wirkungen, Einatmen          | 734 mg/m <sup>3</sup> ( ) |
|            | Verbraucher, Chronische Wirkungen, Einatmen     | 367 kg/m <sup>3</sup> ( ) |

##### Kohlenwasserstoffe, C7, n-Alkane, Isoalkane, Cyclene

|            |  |                       |
|------------|--|-----------------------|
| Oral       | Verbraucher, Verschlucken Langzeitige Exposition | 149 mg/kg bw/day      |
| Dermal     | Verbraucher, Hautkontakt Langzeitige Exposition  | 149 mg/kg bw/day      |
| Inhalative | Verbraucher, Einatmen Langzeitige Exposition     | 477 mg/m <sup>3</sup> |

#### · PNECs

##### 141-78-6 ethyl acetate

|            |                 |
|------------|-----------------|
| Süßwasser  | 0.24 mg/l ( )   |
| Meerwasser | 0.024 mg/l ( )  |
| Boden      | 0.148 mg/kg ( ) |

##### Kohlenwasserstoffe, C7, n-Alkane, Isoalkane, Cyclene

|            |       |
|------------|-------|
| Süßwasser  | mg/l  |
| Meerwasser | mg/l  |
| Boden      | mg/kg |

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

#### · 8.2 Exposure controls

#### · Personal protective equipment:

#### · General protective and hygienic measures:

The usual precautionary measures are to be adhered to when handling chemicals.

Avoid contact with the eyes and skin.

Avoid direct contact with the chemical/ the product/ the preparation by organisational measures.

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- **Protection of hands:**  
The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.  
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation
- **Material of gloves**  
The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.
- **Penetration time of glove material**  
The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.
- **Eye protection:** Not required.

### SECTION 9: Physical and chemical properties

#### · 9.1 Information on basic physical and chemical properties

##### · General Information

##### · Appearance:

|                  |                 |
|------------------|-----------------|
| Form:            | Fluid           |
| Colour:          | Yellow          |
| Odour:           | Characteristic  |
| Odour threshold: | Not determined. |

· pH-value: Not determined.

##### · Change in condition

|  |               |
|--|---------------|
| Melting point/freezing point:            | Undetermined. |
| Initial boiling point and boiling range: | 77°C          |

· Flash point: -1°C

· Flammability (solid, gas): Not applicable.

· Ignition temperature: 460°C

· Decomposition temperature: Not determined.

· Auto-ignition temperature: Product is not selfigniting.

· Explosive properties: Product is not explosive. However, formation of explosive air/vapour mixtures are possible.

##### · Explosion limits:

|        |            |
|--------|------------|
| Lower: | 2.1 Vol %  |
| Upper: | 11.5 Vol % |

· Vapour pressure at 20°C: 97 hPa

|                  |                          |
|------------------|--------------------------|
| Density at 20°C: | 0.8955 g/cm <sup>3</sup> |
| Relative density | Not determined.          |
| Vapour density   | Not determined.          |
| Evaporation rate | Not determined.          |

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|   |   |
|---|---|
| · <b>Solubility in / Miscibility with water:</b>  | Not miscible or difficult to mix.   |
| · <b>Partition coefficient: n-octanol/water:</b>  | Not determined.   |
| · <b>Viscosity:</b><br><b>Dynamic at 20°C:</b><br><b>Kinematic:</b>                       | 3,750 mPas<br>Not determined.   |
| · <b>Solvent content:</b><br><b>Organic solvents:</b><br><b>Water:</b><br><b>VOC (EC)</b> | 73.4 %<br>0.1 %<br>73.44 %  |
| · <b>Solids content:</b>  | 26.4 %  |
| · <b>9.2 Other information</b>  | All relevant physical data were determined for the mixture. All non determined data are not measurably or not relevant for the characterization of the mixture. |

### SECTION 10: Stability and reactivity

- **10.1 Reactivity** No further relevant information available.
- **10.2 Chemical stability**
- **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 toxicological effects**
- **Acute toxicity** Based on available data, the classification criteria are not met.

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

##### 141-78-6 ethyl acetate

|            |          |                      |
|------------|----------|----------------------|
| Oral       | LD50     | 5,620 mg/kg (rabbit) |
| Inhalative | LC50/4 h | 1,600 mg/l (rat)     |

- **Primary irritant effect:**
- **Skin corrosion/irritation** Based on available data, the classification criteria are not met.
- **Serious eye damage/irritation**  
Causes serious eye irritation.
- **Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.
- **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.

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- **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.

### SECTION 12: Ecological information

- **12.1 Toxicity**
- **Aquatic toxicity:** No further relevant information available.
- **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.
- **Ecotoxicological effects:**
- **Remark:** Toxic for 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.  
Also poisonous for fish and plankton in water bodies.  
Toxic for aquatic organisms  
Do not allow product 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.

### 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.  
Disposal must be made according to official regulations.

**European waste catalogue**

|           |  |
|-----------|--|
| 08 04 09* | waste adhesives and sealants containing organic solvents or other hazardous substances |
|-----------|--|

- **Uncleaned packaging:**
- **Recommendation:** Disposal must be made according to official regulations.

### SECTION 14: Transport information

- **14.1 UN-Number**
- **ADR, IMDG, IATA** UN1133
- **14.2 UN proper shipping name**

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|        |   |
|--------|---|
| · ADR  | 1133 ADHESIVES, ENVIRONMENTALLY HAZARDOUS<br>1133 KLEBSTOFFE, UMWELTGEFÄHRDEND, Sondervorschrift 640H |
| · IMDG | ADHESIVES (HEPTANES, CYCLOHEXANE), MARINE POLLUTANT   |
| · IATA | ADHESIVES   |

**14.3 Transport hazard class(es)**

· ADR, IMDG



|         |                      |
|---------|----------------------|
| · Class | 3 Flammable liquids. |
| · Label | 3                    |

· IATA



|         |                      |
|---------|----------------------|
| · Class | 3 Flammable liquids. |
| · Label | 3                    |

**14.4 Packing group**

· ADR, IMDG, IATA III

**14.5 Environmental hazards:**

Product contains environmentally hazardous substances: cyclohexane, Kohlenwasserstoffe, C7, n-Alkane, Isoalkane, Cyclene

· Marine pollutant:

 Yes  
Symbol (fish and tree)

· Special marking (ADR):

Symbol (fish and tree)

**14.6 Special precautions for user**

Warning: Flammable liquids.

· Danger code (Kemler):

-

· EMS Number:

F-E,S-D

· Stowage Category

A

**14.7 Transport in bulk according to Annex II of Marpol and the IBC Code**

Not applicable.

**Transport/Additional information:**

· ADR

· Limited quantities (LQ)

5L

· Excepted quantities (EQ)

Code: E1

Maximum net quantity per inner packaging: 30 ml

Maximum net quantity per outer packaging: 1000 ml

ml

· Transport category

3

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|                                   |  |
|-----------------------------------|--|
| · <b>Tunnel restriction code</b>  | E  |
| · <b>IMDG</b>                     |  |
| · <b>Limited quantities (LQ)</b>  | 5L   |
| · <b>Excepted quantities (EQ)</b> | Code: E1<br>Maximum net quantity per inner packaging: 30 ml<br>Maximum net quantity per outer packaging: 1000 ml |
| · <b>UN "Model Regulation":</b>   | UN 1133 ADHESIVES, 3, III, ENVIRONMENTALLY HAZARDOUS   |

#### SECTION 15: Regulatory information

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **Directive 2012/18/EU**
- **Named dangerous substances - ANNEX I** None of the ingredients is listed.
- **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 ANNEX XVII** Conditions of restriction: 3
- **National regulations:**
- **Other regulations, limitations and prohibitive regulations**
- **Please note:** Product for professional use!
- **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.  
H317 May cause an allergic skin reaction.  
H319 Causes serious eye irritation.  
H336 May cause drowsiness or dizziness.  
H411 Toxic to aquatic life with long lasting effects.
- **Department issuing SDS:** UHU QESH
- **Contact:**  
Frau A. Liar,  
Herr Dr. C. Hanf
- **Abbreviations and acronyms:**  
Flam. Liq. 2: Flammable liquids – Category 2  
Eye Irrit. 2: Serious eye damage/eye irritation – Category 2  
Skin Sens. 1: Skin sensitisation – Category 1

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STOT SE 3: Specific target organ toxicity (single exposure) – Category 3  
Asp. Tox. 1: Aspiration hazard – Category 1  
Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2  
· **\* Data compared to the previous version altered.**

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EU-EN