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

- **Product identifier**
  - **Trade name:** UHU extra All Purpose Adhesive
  - **Relevant identified uses of the substance or mixture and uses advised against**
  - **Application of the substance / the preparation** Adhesives

- **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
  - **Further information obtainable from:** CRD
  - **Emergency telephone number:** 0049-(0)7223284-363/-370

2 Hazards identification

- **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.
    - GHS07
    - Eye Irrit. 2 H319 Causes serious eye irritation.
    - STOT SE 3 H336 May cause drowsiness or dizziness.

- **Classification according to Directive 67/548/EEC or Directive 1999/45/EC**
  - **F:** Highly flammable
  - **R11:** Highly flammable.

- **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.

- **Classification system:**
The classification is according to the latest editions of the EU-lists, and extended by company and literature data.

- **Label elements**

- **Labelling according to EU guidelines:**
The product has been classified and marked in accordance with EU Directives / Ordinance on Hazardous Materials.
The R and S phrases may be omitted if packaging contains no more than 0.125 litre.

- **Code letter and hazard designation of product:**
  - F Highly flammable

- **Risk phrases:**
  - 11 Highly flammable.

- **Safety phrases:**
  - 7/9 Keep container tightly closed and in a well-ventilated place.
  - 16 Keep away from sources of ignition - No smoking.
  - 23 Do not breathe fumes/aerosol.
  - 51 Use only in well-ventilated areas.
3 Composition/information on ingredients

- Chemical characterization: Mixtures
- Description: Adhesive

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS</th>
<th>EINECS</th>
<th>Percentage</th>
<th>Hazards</th>
</tr>
</thead>
<tbody>
<tr>
<td>methyl acetate</td>
<td>79-20-9</td>
<td>201-185-2</td>
<td>25-50%</td>
<td>Xi R36; F R11; R66-67; Flam. Liq. 2, H225; Eye Irrit. 2, H319; STOT SE 3, H336</td>
</tr>
<tr>
<td>ethanol</td>
<td>64-17-5</td>
<td>200-578-6</td>
<td>25-50%</td>
<td>F R11; Flam. Liq. 2, H225</td>
</tr>
</tbody>
</table>

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

4 First aid measures

- 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: Immediately wash with water and soap and rinse thoroughly.
- 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.
- Information for doctor:
  - Most important symptoms and effects, both acute and delayed: No further relevant information available.
  - Indication of any immediate medical attention and special treatment needed: No further relevant information available.

5 Firefighting measures

- Extinguishing media
- Suitable extinguishing agents:
  - CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- Special hazards arising from the substance or mixture: No further relevant information available.
- Advice for firefighters
- Protective equipment: No special measures required.

6 Accidental release measures

- Personal precautions, protective equipment and emergency procedures: Ensure adequate ventilation
- Environmental precautions: Do not allow to enter sewers/ surface or ground water.
- Methods and material for containment and cleaning up:
  - Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
  - Pick up mechanically.
- Reference to other sections
  - See Section 7 for information on safe handling.
7 Handling and storage

- Handling:
  - Precautions 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.

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

8 Exposure controls/personal protection

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

- Control parameters
  - Ingredients with limit values that require monitoring at the workplace:
    - 79-20-9 methyl acetate
      - WEL (Short-term value): 770 mg/m³, 250 ppm
      - Long-term value: 616 mg/m³, 200 ppm
    - 64-17-5 ethanol
      - WEL (Long-term value): 1920 mg/m³, 1000 ppm

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

- Exposure controls
  - Personal protective equipment:
    - General protective and hygienic measures:
      The usual precautionary measures are to be adhered to when handling chemicals.
      Avoid direct contact with the chemical/ the product/ the preparation by organizational measures.
    - Respiratory protection: Not required.
  - Protection of hands:
    Solvent resistant gloves
    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.
### 9 Physical and chemical properties

- **Information on basic physical and chemical properties**
  - **General Information**
  - **Appearance:**
    - Form: Fluid
    - Colour: Colourless
    - Odour: Characteristic
  - **Change in condition**
    - Melting point/Melting range: Undetermined.
    - Boiling point/Boiling range: 57°C
  - **Flash point:** -10°C
  - **Ignition temperature:** 425°C
  - **Self-igniting:** Product is not self-igniting.
  - **Danger of explosion:** Product is not explosive. However, formation of explosive air/vapour mixtures are possible.
  - **Explosion limits:**
    - Lower: 3.1 Vol %
    - Upper: 16.0 Vol %
  - **Vapour pressure at 20°C:** 220 kPa
  - **Density at 20°C:** 0.95 g/cm³
  - **Solubility in / Miscibility with water:** Partly miscible.
  - **Viscosity:**
    - Dynamic at 20°C: 90000 mPas
  - **Solvent content:**
    - Organic solvents: 68.8 %
    - Water: 0.4 %
    - VOC (EC) 68.85 %
  - **Solids content:** 30.8 %
  - **Other information** No further relevant information available.

### 10 Stability and reactivity

- **Reactivity**
- **Chemical stability**
  - **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
  - **Possibility of hazardous reactions** No dangerous reactions known.
  - **Conditions to avoid** No further relevant information available.
  - **Incompatible materials:** No further relevant information available.
  - **Hazardous decomposition products:** No dangerous decomposition products known.

### 11 Toxicological information

- **Information on toxicological effects**
- **Acute toxicity:**
  - **LD/LC50 values relevant for classification:**
    - 79-20-9 methyl acetate
    - Oral LD50 3705 mg/kg (rabbit)

(Contd. on page 5)
Trade name: UHU extra All Purpose Adhesive

<table>
<thead>
<tr>
<th>64-17-5 ethanol</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oral LD50</td>
</tr>
<tr>
<td>Inhalative LC50/4 h</td>
</tr>
</tbody>
</table>

- Primary irritant effect:
  - on the skin: No irritant effect.
  - on the eye: No irritating effect.
  - Sensitization: No sensitizing effects known.

12 Ecological information

- Toxicity
  - Aquatic toxicity: No further relevant information available.
  - Persistence and degradability: No further relevant information available.
  - Behaviour in environmental systems:
    - Bioaccumulative potential: No further relevant information available.
    - Mobility in soil: No further relevant information available.
  - Additional ecological information:
    - General notes:
      Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water
      Do not allow product to reach ground water, water course or sewage system.

13 Disposal considerations

- 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 dangerous substances

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

14 Transport information

- UN-Number
  - ADR, IMDG, IATA: UN1133

- UN proper shipping name
  - ADR
  - IMDG, IATA: 1133 KLEBSTOFFE, Sondervorschrift 640H ADHESIVES

- Transport hazard class(es)
  - ADR
  - Class: 3 Flammable liquids.
### 15 Regulatory information

- **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

### 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.
  - H319 Causes serious eye irritation.
  - H336 May cause drowsiness or dizziness.
  - R11 Highly flammable.
  - R36 Irritating to eyes.
  - R66 Repeated exposure may cause skin dryness or cracking.
  - R67 Vapours may cause drowsiness and dizziness.

- **Department issuing MSDS:** CRD
- **Contact:**
  - Frau A. Liar,
  - Herr Dr. C. Hanf

- **Abbreviations and acronyms:**
  - ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
  - RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
  - IMDG: International Maritime Code for Dangerous Goods
  - IATA: International Air Transport Association
  - ICAO: International Civil Aviation Organization
**Trade name:** UHU extra All Purpose Adhesive

<table>
<thead>
<tr>
<th>GHS: Globally Harmonized System of Classification and Labelling of Chemicals</th>
</tr>
</thead>
<tbody>
<tr>
<td>VOC: Volatile Organic Compounds (USA, EU)</td>
</tr>
<tr>
<td>LC50: Lethal concentration, 50 percent</td>
</tr>
<tr>
<td>LD50: Lethal dose, 50 percent</td>
</tr>
</tbody>
</table>