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

- **Product details**
  - **Trade name:** UHU The All Purpose Adhesive
  - **Application of the substance / the preparation** Adhesives

- **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
- **Information in case of emergency:** 0049-(0)7223284-363/-370

2 Hazards identification

- **Hazard description:**
  - F 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.
  R 11 Highly flammable.

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

3 Composition/information on ingredients

- **Chemical characterization**
  - **Description:** Adhesive

- **Dangerous components:**
<table>
<thead>
<tr>
<th>CAS</th>
<th>EINECS</th>
<th>Description</th>
<th>Xi, F; R 11-36-66-67</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>79-20-9</td>
<td>201-185-2</td>
<td>methyl acetate</td>
<td>Xi, F; R 11-36-66-67</td>
<td>50-100%</td>
</tr>
<tr>
<td>64-17-5</td>
<td>200-578-6</td>
<td>ethanol</td>
<td>F; R 11</td>
<td>2.5-10%</td>
</tr>
<tr>
<td>67-64-1</td>
<td>200-662-2</td>
<td>acetone</td>
<td>Xi, F; R 11-36-66-67</td>
<td>2.5-10%</td>
</tr>
</tbody>
</table>

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

4 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.

5 Fire-fighting measures

- **Suitable extinguishing agents:**
  CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
6 Accidental release measures

- **Person-related safety precautions:** Ensure adequate ventilation
- **Measures for environmental protection:** 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).
  Pick up mechanically.

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.
  - **Information about storage in one common storage facility:** Not required.
  - **Further information about storage conditions:** 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.

<table>
<thead>
<tr>
<th>Ingredients with limit values that require monitoring at the workplace:</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>79-20-9 methyl acetate</strong></td>
</tr>
<tr>
<td>WEL Short-term value: 770 mg/m³, 250 ppm</td>
</tr>
<tr>
<td>Long-term value: 616 mg/m³, 200 ppm</td>
</tr>
<tr>
<td><strong>64-17-5 ethanol</strong></td>
</tr>
<tr>
<td>WEL Long-term value: 1920 mg/m³, 1000 ppm</td>
</tr>
<tr>
<td><strong>67-64-1 acetone</strong></td>
</tr>
<tr>
<td>WEL Short-term value: 3620 mg/m³, 1500 ppm</td>
</tr>
<tr>
<td>Long-term value: 1210 mg/m³, 500 ppm</td>
</tr>
</tbody>
</table>

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

- **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.
9 Physical and chemical properties

- **General Information**
  - **Form:** Fluid
  - **Colour:** Colourless
  - **Odour:** Characteristic

- **Change in condition**
  - **Melting point/Melting range:** Undetermined.
  - **Boiling point/Boiling range:** 55°C

- **Flash point:** -13°C
- **Ignition temperature:** 425°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:** 3.1 Vol %
  - **Upper:** 16.0 Vol %

- **Vapour pressure at 20°C:** 220 hPa
- **Density at 20°C:** 0.99 g/cm³

- **Solubility in / Miscibility with water:** Partly miscible.

- **Viscosity:**
  - **Dynamic at 20°C:** 4400 mPas

- **Solvent content:**
  - **Organic solvents:** 65.8 %
  - **Water:** 0.4 %
  - **VOC (EC):** 65.85 %

- **Solids content:** 33.8 %

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:**

<table>
<thead>
<tr>
<th>Route</th>
<th>LD/LC50 values relevant for classification:</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>79-20-9 methyl acetate</td>
</tr>
<tr>
<td>Oral</td>
<td>LD50 3705 mg/kg (rabbit)</td>
</tr>
<tr>
<td>Oral</td>
<td>LD50 7060 mg/kg (rat)</td>
</tr>
<tr>
<td>Inhalative</td>
<td>LC50/4 h 20000 mg/l (rat)</td>
</tr>
</tbody>
</table>

(Contd. on page 4)
Trade name: UHU The All Purpose Adhesive

67-64-1 acetone

<table>
<thead>
<tr>
<th></th>
<th>Oral LD50</th>
<th>Dermal LD50</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>5800 mg/kg (rat)</td>
<td>20000 mg/kg (rabbit)</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

- 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

- Product:
  - 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

- Land transport ADR/RID (cross-border)

  - ADR/RID class: 3 Flammable liquids.
  - Danger code (Kemler): 33
  - UN-Number: 1133
  - Packaging group: III
  - Hazard label: 3
  - Description of goods: 1133 ADHESIVES, special provision 640H

- Maritime transport IMDG:

  - IMDG Class: 3
  - UN Number: 1133
  - Label: 3
  - Packaging group: III
  - EMS Number: F-E,S-E
  - Marine pollutant: No
Trade name: UHU The All Purpose Adhesive

<table>
<thead>
<tr>
<th>Proper shipping name: ADHESIVES</th>
</tr>
</thead>
<tbody>
<tr>
<td>Air transport ICAO-TI and IATA-DGR:</td>
</tr>
</tbody>
</table>

- ICAO/IATA Class: 3
- UN/ID Number: 1133
- Label: 3
- Packaging group: III
- Proper shipping name: ADHESIVES

15 Regulatory information

- 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.

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 R-phrases
  11 Highly flammable.
  36 Irritating to eyes.
  66 Repeated exposure may cause skin dryness or cracking.
  67 Vapours may cause drowsiness and dizziness.

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