

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

Printing date 25.06.2015

Version number 20

Revision: 25.06.2015

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

- **1.1 Product identifier**
- **Trade name: UHU por**
- **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: CRD**
- **1.4 Emergency telephone number: 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

Skin Irrit. 2 H315 Causes skin 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
- **Hazard-determining components of labelling:**
??
- **Hazard statements**
H225 Highly flammable liquid and vapour.
H315 Causes skin irritation.
H336 May cause drowsiness or dizziness.
H411 Toxic to aquatic life with long lasting effects.

(Contd. on page 2)

Safety data sheet

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Version number 20

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Trade name: UHU por

(Contd. of page 1)

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.*
 P280 *Wear protective gloves/protective clothing/eye protection/face protection.*
 P273 *Avoid release to the environment.*
 P303+P361+P353 *IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.*
 P501 *Dispose of contents/container in accordance with local/regional/national/international regulations.*

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:

EC number: 927-510-4 Reg.nr.: 01-2119475515-33-005	Kohlenwasserstoffe, C7, n-Alkane, Isoalkane, Cyclene ⚠ Flam. Liq. 2, H225; ⚠ Asp. Tox. 1, H304; ⚠ Aquatic Chronic 2, H411; ⚠ Skin Irrit. 2, H315; STOT SE 3, H336	50-80%
CAS: 110-82-7 EINECS: 203-806-2	cyclohexane ⚠ Flam. Liq. 2, H225; ⚠ Asp. Tox. 1, H304; ⚠ Aquatic Acute 1, H400; ⚠ Aquatic Chronic 1, H410; ⚠ Skin Irrit. 2, H315; STOT SE 3, H336	<1,0%

 • **Additional information:** For the wording of the listed risk 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:
In case of unconsciousness place patient stably in side position for transportation.
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.

 • **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:** CO₂, sand, extinguishing powder. Do not use water.

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

(Contd. on page 3)

Safety data sheet

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Printing date 25.06.2015

Version number 20

Revision: 25.06.2015

Trade name: UHU por

(Contd. of page 2)

- **5.2 Special hazards arising from the substance or mixture**
In case of fire, the following can be released:
 Carbon monoxide (CO)
- **5.3 Advice for firefighters**
- **Protective equipment:** 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:**
Do not flush with water or aqueous cleansing agents
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Send for recovery or disposal in suitable receptacles.
- **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** *Ensure good ventilation/exhaustion at the workplace.*
- **Information about fire - and explosion protection:**
Keep ignition sources away - Do not smoke.
Protect from heat.
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.
Store in cool, dry conditions in well sealed receptacles.
Protect from heat and direct sunlight.
- **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:**
110-82-7 cyclohexane

IOELV (EU)	Long-term value: 700 mg/m ³ , 200 ppm
AGW (Germany)	Long-term value: 700 mg/m ³ , 200 ppm 4(II);DFG, EU

(Contd. on page 4)

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 25.06.2015

Version number 20

Revision: 25.06.2015

Trade name: UHU por

(Contd. of page 3)

· Ingredients with biological limit values:
110-82-7 cyclohexane

BGW (Germany)	150 mg/g Kreatinin Untersuchungsmaterial: Urin Probennahmezeitpunkt: bei Langzeitexposition: Nach mehreren vorangegangenen Schichten, Expositionsende bzw. Schichtende Parameter: 1,2-Cyclohexandiol (nach Hydrolyse)
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· **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.

Keep away from foodstuffs, beverages and feed.

Wash hands before breaks and at the end of work.

Do not inhale gases / fumes / aerosols.

Avoid contact with the eyes and skin.

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

· Protection of hands:


Protective gloves

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 through time has to be found out by the manufacturer of the protective gloves and has to be observed.

· Eye protection:


Tightly sealed goggles

SECTION 9: Physical and chemical properties

· 9.1 Information on basic physical and chemical properties
· General Information
· Appearance:

Form:	Fluid
Colour:	Yellowish
· Odour:	Characteristic
· Odour threshold:	Not determined.

· **pH-value:** Not determined.

· Change in condition

Melting point/Melting range: Undetermined.

(Contd. on page 5)

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 25.06.2015

Version number 20

Revision: 25.06.2015

Trade name: UHU por

(Contd. of page 4)

Boiling point/Boiling range:	83 °C
· Flash point:	-1 °C
· Flammability (solid, gaseous):	Not applicable.
· Ignition temperature:	215 °C
· Decomposition temperature:	Not determined.
· 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:	6,7 Vol %
· Vapour pressure at 20 °C:	48 hPa
· Density at 20 °C:	0,80529 g/cm ³
· Relative density	Not determined.
· Vapour density	Not determined.
· Evaporation rate	Not determined.
· Solubility in / Miscibility with water:	Not miscible or difficult to mix.
· Partition coefficient (n-octanol/water):	Not determined.
· Viscosity:	
Dynamic at 20 °C:	13000 mPas
Kinematic:	Not determined.
· Solvent content:	
Organic solvents:	69,2 %
VOC (EC)	69,19 %
Solids content:	30,8 %
· 9.2 Other information	No further relevant information available.

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**

 · **LD/LC50 values relevant for classification:**
110-82-7 cyclohexane

Oral | LD50 | 12705 mg/kg (rat)

(Contd. on page 6)

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

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Version number 20

Revision: 25.06.2015

Trade name: UHU por

(Contd. of page 5)

- **Primary irritant effect:**
- **Skin corrosion/irritation**
Causes skin irritation.
- **Serious eye damage/irritation** Based on available data, the classification criteria are not met.
- **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.
- **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 dangerous substances |
|-----------|--|
- **Uncleaned packaging:**
 - **Recommendation:** Disposal must be made according to official regulations.

SECTION 14: Transport information

- **14.1 UN-Number**
- **ADR, IMDG, IATA** UN1133

(Contd. on page 7)

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 25.06.2015

Version number 20

Revision: 25.06.2015

Trade name: UHU por

(Contd. of page 6)

<ul style="list-style-type: none"> · 14.2 UN proper shipping name · ADR · IMDG · IATA 	1133 ADHESIVES, ENVIRONMENTALLY HAZARDOUS, special provision 640H 1133 KLEBSTOFFE, UMWELTGEFÄHRDEND, Sondervorschrift 640H ADHESIVES (HEPTANES, CYCLOHEXANE), MARINE POLLUTANT ADHESIVES
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14.3 Transport hazard class(es)

 · **ADR, IMDG**


<ul style="list-style-type: none"> · Class · Label 	3 Flammable liquids. 3
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 · **IATA**


<ul style="list-style-type: none"> · Class · Label 	3 Flammable liquids. 3
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14.4 Packing group

<ul style="list-style-type: none"> · ADR · IMDG, IATA 	III II
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14.5 Environmental hazards:

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

 · **Marine pollutant:**

Yes

 · **Special marking (ADR):**

 Symbol (fish and tree)
 Symbol (fish and tree)

14.6 Special precautions for user

Warning: Flammable liquids.

 · **Danger code (Kemler):**

-

 · **EMS Number:**

F-E,S-D

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

 · **Transport category**

3

 · **Tunnel restriction code**

E

 · **IMDG**

 · **Limited quantities (LQ)**

5L

(Contd. on page 8)

Safety data sheet

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Version number 20

Revision: 25.06.2015

Trade name: UHU por

(Contd. of page 7)

 · **Excepted quantities (EQ)**

Code: E2

Maximum net quantity per inner packaging: 30 ml

Maximum net quantity per outer packaging: 500 ml

 · **UN "Model Regulation":**

UN1133, ADHESIVES, special provision 640H, ENVIRONMENTALLY HAZARDOUS, 3, III

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.
- **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.

H336 May cause drowsiness or dizziness.

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.

- **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)

IMDG: International Maritime Code for Dangerous Goods

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)

VOC: Volatile Organic Compounds (USA, EU)

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, Hazard Category 2

Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2

STOT SE 3: Specific target organ toxicity - Single exposure, Hazard Category 3

Asp. Tox. 1: Aspiration hazard, Hazard Category 1

Aquatic Acute 1: Hazardous to the aquatic environment - Acute Hazard, Category 1

Aquatic Chronic 1: Hazardous to the aquatic environment - Chronic Hazard, Category 1

Aquatic Chronic 2: Hazardous to the aquatic environment - Chronic Hazard, Category 2

- *** Data compared to the previous version altered.**