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**1 Identification of substance**· **Product details**

- **Trade name:** *UHU Creativ Polystyrene Foam & Craft Foils*
- **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

Fax: 0049-(0)7223-284-245

· **Information department:** *CRD*· **Emergency information:** *0049-(0)7223284-363/-370***2 Composition/Data on components**· **Chemical characterization**· **Description:** *Adhesive*· **Dangerous components:**

31394-54-4	Heptan	50-100%
108-87-2	Methylcyclohexan	10-25%
110-82-7	Cyclohexan	≤ 2.5%

**3 Hazards identification**· **Hazard description:**

*Irritant*  
*Highly flammable*  
*Dangerous for the environment*

· **WHMIS-symbols:**

*B2 - Flammable liquid*

*D2B - Toxic material causing other toxic effects*

· **Information pertaining to particular dangers for man and environment:**

*The product has to be labelled due to the calculation procedure of international guidelines.*

*Highly flammable.*

*Irritating to skin.*

*Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.*

· **Classification system:**

*The classification was made according to the latest editions of international substances lists, and expanded upon from company and literature data.*

· **NFPA ratings (scale 0 - 4)**

*Health = 1*

*Fire = 3*

*Reactivity = 0*

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CDN

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· **HMIS-ratings (scale 0 - 4)**

HEALTH	1	Health = 1
FIRE	3	Fire = 3
REACTIVITY	0	Reactivity = 0

### 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; immediately call for medical help.

### 5 Fire fighting measures

- **Suitable extinguishing agents:** CO<sub>2</sub>, sand, extinguishing powder. Do not use water.
- **For safety reasons unsuitable extinguishing agents:** Water with full jet
- **Special hazards caused by the material, its products of combustion or resulting gases:**  
In case of fire, the following can be released:  
Carbon monoxide (CO)
- **Protective equipment:** No special measures required.

### 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.  
Prevent formation of aerosols.
- **Information about protection against explosions and fires:**  
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 and personal protection

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

· **Components with limit values that require monitoring at the workplace:**

**108-87-2 Methylcyclohexan**

EL	Short-term value: 500 ppm
	Long-term value: 400 ppm

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**110-82-7 Cyclohexan**

<b>EL</b>	Short-term value: 300 ppm Long-term value: 100 ppm
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- **Additional information:** The lists that were valid during the creation were used as basis.
- **Personal protective equipment:**
- **General protective and hygienic measures:**  
The usual precautionary measures for handling chemicals should be followed.  
Keep away from foodstuffs, beverages and feed.  
Avoid contact with the eyes and skin.  
Do not inhale gases / fumes / aerosols.  
Avoid direct contact with the chemical/ the product/ the preparation by organizational measures.
- **Breathing equipment:** 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 through time has to be found out by the manufacturer of the protective gloves and has to be observed.
- **Eye protection:** Safety glasses

**9 Physical and chemical properties**

· **General Information**

<b>Form:</b>	Fluid
<b>Color:</b>	Yellowish
<b>Odor:</b>	Characteristic

· **Change in condition**

**Melting point/Melting range:** Undetermined.  
**Boiling point/Boiling range:** 98°C

· **Flash point:** -4°C

· **Ignition temperature:** 215°C

· **Auto igniting:** Product is not selfigniting.

· **Danger of explosion:** Product is not explosive. However, formation of explosive air/vapor mixtures are possible.

· **Explosion limits:**

<b>Lower:</b>	1.1 Vol %
<b>Upper:</b>	6.7 Vol %

· **Vapor pressure at 20°C:** 48 hPa

· **Density at 20°C:** 0.806 g/cm<sup>3</sup>

· **Solubility in / Miscibility with**

**Water:** Not miscible or difficult to mix.

· **Viscosity:**

**Dynamic at 20°C:** 13000 mPas

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<b>· Solvent content:</b>	
<b>Organic solvents:</b>	69.2 %
<b>· Solids content:</b>	
	30.8 %

### 10 Stability and reactivity

- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **Dangerous reactions** No dangerous reactions known.
- **Dangerous products of decomposition:** No dangerous decomposition products known.

### 11 Toxicological information

· **Acute toxicity:**

· **LD/LC50 values that are relevant for classification:**

**108-87-2 Methylcyclohexan**

Oral	LD50	2250 mg/kg (mouse)
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**110-82-7 Cyclohexan**

Oral	LD50	12705 mg/kg (rat)
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· **Primary irritant effect:**

· **on the skin:** Irritant to skin and mucous membranes.

· **on the eye:** No irritating effect.

· **Sensitization:** No sensitizing effects known.

· **Additional toxicological information:**

Irritant

The product shows the following dangers according to internally approved calculation methods for preparations:

### 12 Ecological information

· **General notes:**

Water hazard class 1 (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 of together with household garbage. Do not allow product to reach sewage system.

Disposal must be made according to official regulations.

· **Uncleaned packagings:**

· **Recommendation:** Disposal must be made according to official regulations.

### 14 Transport information

· **DOT regulations:**



· **Hazard class:**

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- **Identification number:** UN1133
- **Packing group:** III
- **Proper shipping name (technical name):** ADHESIVES
- **Label:** 3

· **Land transport ADR/RID (cross-border):**



- **ADR/RID class:** 3 Flammable liquids
- **Danger code (Kemler):** 33
- **UN-Number:** 1133
- **Packaging group:** III
- **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-D
- **Marine pollutant:** No
- **Propper shipping name:** ADHESIVES

· **Air transport ICAO-TI and IATA-DGR:**



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

### 15 Regulations

· **Sara**

· **Section 355 (extremely hazardous substances):**

None of the ingredient is listed.

· **Section 313 (Specific toxic chemical listings):**

110-82-7 Cyclohexan

· **TSCA (Toxic Substances Control Act):**

31394-54-4 Heptan

108-87-2 Methylcyclohexan

112945-52-5 Siliciumdioxid

110-82-7 Cyclohexan

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**· Proposition 65**

**· Chemicals known to cause cancer:**

None of the ingredients is listed.

**· Chemicals known to cause reproductive toxicity for females:**

None of the ingredients is listed.

**· Chemicals known to cause reproductive toxicity for males:**

None of the ingredients is listed.

**· Chemicals known to cause developmental toxicity:**

None of the ingredients is listed.

**· Cancerogenity categories**

**· EPA (Environmental Protection Agency)**

None of the ingredients is listed.

**· IARC (International Agency for Research on Cancer)**

9003-55-8	Styrol-Butadien-Copolymer	3
112945-52-5	Siliciumdioxid	3

**· NTP (National Toxicology Program)**

None of the ingredients is listed.

**· TLV (Threshold Limit Value established by ACGIH)**

None of the ingredients is listed.

**· NIOSH-Ca (National Institute for Occupational Safety and Health)**

None of the ingredients is listed.

**· OSHA-Ca (Occupational Safety & Health Administration)**

None of the ingredients is listed.

**· Canadian substance listings:**

**· Canadian Domestic Substances List (DSL)**

All ingredients are listed.

**· Canadian Ingredient Disclosure list (limit 0.1%)**

None of the ingredients is listed.

**· Canadian Ingredient Disclosure list (limit 1%)**

108-87-2	Methylcyclohexan
112945-52-5	Siliciumdioxid

**· Product related hazard informations:**

The R and S phrases may be omitted if packaging contains no more than 0.125 liter.  
The product has been classified and marked in accordance with directives on hazardous materials.

**· Hazard symbols:**

Irritant  
Highly flammable  
Dangerous for the environment

**· Risk phrases:**

Highly flammable.  
Irritating to skin.  
Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

**· Safety phrases:**

Keep out of the reach of children.  
Keep container tightly closed and in a well-ventilated place.  
Keep away from sources of ignition - No smoking.  
Do not breathe fumes/aerosol.  
Do not empty into drains, dispose of this material and its container at hazardous or special waste collection point.

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*If swallowed, seek medical advice immediately and show this container or label.*

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### **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.*

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

CDN