

**Material Safety Data Sheet**
acc. to ISO/DIS 11014

Printing date 03/03/2010

Reviewed on 03/03/2010

1 Identification of substance· **Product details**· **Trade name / Article No:** KLEIBERIT *PUR HC 717***(717.0)**· **Application of the substance / the preparation** Adhesives· **Manufacturer/Supplier:**KLEBCHEMIE
M.G.Becker GmbH + Co. KG
Max Becker Str. 4
D - 76356 Weingarten / Baden
Germany

KLEIBERIT Adhesives USA Inc.

109-B Howie Mine Road, PO Box 1319
Waxhaw, NC 28173
USA· **Information department:**Phone 1-704-843-3339
FAX 1-704-843-4930· **Emergency information:**

email: hse@kleiberit.com

1-800-424-9300 (CHEMTREC)
1-800-451-1403 (SARA-HOTLINE)**2 Composition/Data on components**· **Chemical characterization**· **Description:** Mixture of the substances listed below with nonhazardous additions.· **Dangerous components:**

CAS NO.	Description	%
CAS: 822-06-0	hexamethylen-1,6-diisocyanate	< 0.5%
RETECS: MO 1740000 T, Xi; R 23-36/37/38-42/43		
	aliphatic polyisocyanate, based on hexamethylene diisocyanate Xi; R 43	< 10 %

· **Additional information:** For the wording of the listed risk phrases refer to section 16.**3 Hazards identification**· **Hazard description (EU):**

Xi Irritant

· **This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200)**· **Information pertaining to particular dangers for man and environment:**

May cause sensitization by skin contact.

Contains isocyanates. See information supplied by the manufacturer.

· **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) - USA**

Health = 1

Fire = 1

Reactivity = 0

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- **HMIS-ratings (scale 0 - 4) - USA**

Health = 1

Fire = 1

Reactivity = 0

- **CARCINOGENICITY** NTP: No IARC: 3 OSHA: No

4 First aid measures

- **After inhalation:**

Supply fresh air and to be sure call for a doctor.

In case of unconsciousness place patient stably in side position for transportation.

- **After skin contact:** After contact with the molten product, cool rapidly with cold water.

- **After eye contact:**

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

- **After swallowing:** Seek medical treatment.

- **Information for doctor:**

- **The following symptoms may occur:**

Asthma attacks

Allergic reactions

5 Fire fighting measures

- **Suitable extinguishing agents:**

CO₂, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

- **Special hazards caused by the material, its products of combustion or resulting gases:**

Nitrogen oxides (NO_x)

Isocyanates

Traces:

Hydrogen cyanide (HCN)

- **Protective equipment:** Wear self-contained respiratory protective device.

6 Accidental release measures

- **Person-related safety precautions:**

Use respiratory protective device against the effects of fumes/dust/aerosol.

See Pos. 8 - Breathing equipment.

- **Measures for environmental protection:** No special measures required.

- **Measures for cleaning/collecting:**

Ensure adequate ventilation.

Pick up mechanically.

7 Handling and storage

- **Handling:**

- **Information for safe handling:** Ensure good ventilation/exhaustion at the workplace.

- **Information about protection against explosions and fires:** No special measures required.

- **Storage:**

- **Requirements to be met by storerooms and receptacles:** Keep container tightly closed.

- **Further information about storage conditions:** None.

8 Exposure controls and personal protection

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

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

- **CAS No. Designation of material % Type Value Unit**

- **822-06-0 hexamethylen-1,6-diisocyanate**

- REL (USA) Short-term value: C 0.14* mg/m³, C 0.2* ppm
- Long-term value: 0.035 mg/m³, 0.005 ppm
- *10-min

- TLV (USA) 0.034 mg/m³, 0.005 ppm

- EL (Canada) Short-term value: C 0.01 ppm

- Long-term value: 0.005 ppm

- S

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

- **Personal protective equipment:**

- **General protective and hygienic measures:**

- Keep away from foodstuffs, beverages and feed.

- Immediately remove all soiled and contaminated clothing.

- Wash hands before breaks and at the end of work.

- Do not inhale gases / fumes / aerosols.

- **Breathing equipment:** Use suitable respiratory protective device only when aerosol or mist is formed.

- **Protection of hands:** Heat resistant gloves

- **Material of gloves:** Leather gloves

- **Eye protection:** Goggles recommended during refilling.

9 Physical and chemical properties

- **General Information**

- **Form:** Solid

- **Color:** White

- Different according to coloring

- **Odor:** uncharacteristic

- **Change in condition**

- **Boiling point/Boiling range:** Undetermined.

- **Fusion temperature / range:** 70°C (158°F) (ring+ball)

- **Flash Point:** Not applicable.

- **Ignition Temperature:** > 300°C (> 572°F)

- **Auto Igniting:** Product is not selfigniting.

- **Danger of Explosion:** Product does not present an explosion hazard.

- **Density at 20°C (68°F):** 1.41 g/cm³

- **Solubility in / Miscibility with**

- **Water:** Insoluble.

- **pH-value:** Not applicable

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:** Isocyanate

11 Toxicological information

- **Acute toxicity:**

- **Primary irritant effect:**

- **on the skin:** No irritant effect.

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- **on the eye:** No irritating effect.
- **Sensitization:**
Sensitization possible through inhalation.
Sensitization possible through skin contact.

- **Additional toxicological information:**

Harmful

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

12 Ecological information

- **Information about elimination (persistence and degradability):**
- **Other information:** The product is difficultly biodegradable.
- **General notes:** Generally not hazardous for water

13 Disposal considerations

- **Recommendation:**
Can be burned with household garbage after consulting with the waste disposal facility operator and the pertinent authorities and adhering to the necessary technical regulations.
- **Uncleaned packagings:**
 - **Recommendation:**
Empty contaminated packagings thoroughly. They can be recycled after thorough and proper cleaning.

14 Transport information

- **DOT regulations:**
 - **Hazard class:** No dangerous good
- **Maritime transport IMDG:**
 - **IMDG Class:** No dangerous good
 - **Marine pollutant:** No
- **Air transport ICAO-TI and IATA-DGR:**
 - **ICAO/IATA Class:** No dangerous good

15 Regulations

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

None of the ingredients is listed.

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

822-06-0 hexamethylen-1,6-diisocyanate

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

All components of this product are on TSCA.

- **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 developmental toxicity (Prop 65):**

None of the ingredients is listed.

- **EPA (Environmental Protection Agency):**

None of the ingredients is listed.

- **NTP (National Toxicology Program):**

None of the ingredients is listed.

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Trade name / Article No: KLEIBERIT *PUR HC 717***(717.0)***(Contd. of page 4)***· Product related hazard informations:**

The product has been classified and marked in accordance with European directives on hazardous materials.

· Hazard symbols (EU):

Xi Irritant

· Hazard-determining components of labelling:

hexamethylen-1,6-diisocyanate

· Risk phrases:

May cause sensitization by skin contact.

· Special labeling of certain preparations:

Contains isocyanates. See information supplied by the manufacturer.

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.

· USA: Relevant labels and warnings

HAZCOM LABEL: CAUTION! IRRITANT.

MAY CAUSE SENSITIZATION BY SKIN CONTACT.

· Relevant R-phrases

23 Toxic by inhalation.

36/37/38 Irritating to eyes, respiratory system and skin.

42/43 May cause sensitization by inhalation and skin contact.

43 May cause sensitization by skin contact.

· Department issuing MSDS: Safety & Environment

· Contact: Dr. Wolfgang Stüber

USA