

**Safety data sheet  
according to EU 453/2010**

Printing date 20.04.2015

Version-No. 3

Revision: 31.01.2014

**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1. Product identifier**Trade name / Article-No: **KLEIBERIT 707.7****1.2. Relevant identified uses of the substance / mixture or 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:**KLEBCHEMIE  
M.G.Becker GmbH & Co. KG  
Max Becker Str. 4  
D - 76356 Weingarten / Baden  
Germany

KLEIBERIT Adhesives Australia

Unit 36, 42-46 Wattle Road  
BROOKVALE NSW 2100  
Australia**Further information obtainable from:**

phone: +49-7244-62-0 (Germany)

FAX: +49-7244-700-0

email: hse@kleiberit.com

phone: +61-2-9907 1411

FAX: +61-2-9938 4091

**1.4. Emergency telephone number:**

phone: +49-7244 62 486 / Language: English, German

available on workdays (Mo - Fr) 08:00 am to 04:00 pm (Central European Time- CET)

email: hse@kleiberit.com

phone: 040 749 51 75 (office hours)

**SECTION 2: Hazards identification****2.1. Classification of the substance or mixture****Classification according to Regulation (EC) No 1272/2008 - GHS/CLP**

Resp. Sens. 1 H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Carc. 2 H351 Suspected of causing cancer.

Skin Sens. 1 H317 May cause an allergic skin reaction.

**2.2. Label elements****Hazard pictograms**

GHS08

**Signal word Danger****Hazard-determining components of labelling:**

diphenylmethane-4,4'-diisocyanate

**Hazard statements**

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

H317 May cause an allergic skin reaction.

H351 Suspected of causing cancer.

**Precautionary statements**

P280 Wear protective gloves.

P261 Avoid breathing vapours.

P314 Get medical advice/attention if you feel unwell.

**Additional information:**

Contains isocyanates. May produce an allergic reaction.

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- **Information concerning particular hazards for human and environment:**
- **Safety phrases:**
  - 23 Do not breathe vapour/spray.
  - 24 Avoid contact with skin.
  - 37 Wear suitable gloves.
  - 45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
- **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:** mixture of synthetic plastics, based on polyurethane
  - **Dangerous components:**
- | CAS-No   | Description                       | Index R-phrases   | %      |
|----------|-----------------------------------|---|--------|
| 101-68-8 | diphenylmethane-4,4'-diisocyanate | Xn R20-40-48/20; Xn R42/43; Xi R36/37/38<br>Carc. Cat. 3<br>Resp. Sens. 1, H334; Carc. 2, H351; STOT RE 2, H373; Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317; STOT SE 3, H335 | < 2.5% |

### SECTION 4: First aid measures

- **4.1. Description of 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.
  - If skin irritation continues, consult a doctor.
- **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:**
- **4.2. Most important symptoms and effects, both acute and delayed**
  - Asthma attacks
  - Allergic reactions
- **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:**
  - CO<sub>2</sub>, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **For safety reasons unsuitable extinguishing agents:** None
- **5.2. Special hazards arising from the substance or mixture**
  - Nitrogen oxides (NO<sub>x</sub>)
  - Isocyanates
  - Traces:
    - Hydrogen cyanide (HCN)
- **5.3. Advice for firefighters**
- **Protective equipment:** Wear self-contained respiratory protective device.

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### SECTION 6: Accidental release measures

- **6.1. Personal precautions, protective equipment and emergency procedures**  
Use respiratory protective device against the effects of fumes/dust/aerosol.
- **6.2. Environmental precautions:** Do not allow to enter sewers/ surface or ground water.
- **6.3. Methods and material for containment and cleaning up:**  
Ensure adequate ventilation.  
Allow to solidify. Pick up mechanically.
- **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

- **Handling:**
- **7.1. Precautions for safe handling**  
Ensure good ventilation/exhaustion at the workplace.  
Prevent formation of dust.
- **Information about fire - and explosion protection:** No special measures required.
- **General protective and hygienic measures:**  
Keep away from foodstuffs, beverages and feed.  
Avoid contact with the skin.  
Do not inhale gases / fumes / aerosols.  
Store protective clothing separately.  
Immediately remove all soiled and contaminated clothing
- **7.2. Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** Keep container tightly closed.
- **Information about storage in one common storage facility:** Observe the national regulations.
- **Further information about storage conditions:** Protect from humidity and water.
- **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:**
- **PNECs**

#### 101-68-8 diphenylmethane-4,4'-diisocyanate

PNEC-Abwasserreinigungsanlage(STP) &gt;1 mg/l (x00)

PNEC-Boden &gt;1 mg/kg (x00)

PNEC-Meerwasser &gt;0.1 mg/l (x00)

PNEC-Süßwasser &gt;1 mg/l (x00)

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

#### 101-68-8 diphenylmethane-4,4'-diisocyanate

NES (AUS)      Short-term value: 0.07 mg/m<sup>3</sup>  
                     Long-term value: 0.02 mg/m<sup>3</sup>  
                     Sen

MEL (Great Britain) Short-term value: 0.07 mg/m<sup>3</sup>  
                             Long-term value: 0.02 mg/m<sup>3</sup>  
                             Sen; as -NCO

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PEL (USA)	Short-term value: C 0.2 mg/m <sup>3</sup> , C 0.02 ppm
REL (USA)	Short-term value: C 0.2* mg/m <sup>3</sup> , C 0.02* ppm Long-term value: 0.05 mg/m <sup>3</sup> , 0.005 ppm *10-min
TLV (USA)	0.051 mg/m <sup>3</sup> , 0.005 ppm

- **8.2. Exposure controls**

- **Personal protective equipment:**

- **Respiratory protection:**

At spray application respiratory protection must be worn.

Filter A/P2 (EN 14387)

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

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

- **Material of gloves:** Leather gloves

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

- **Body protection:** Protective work clothing

### SECTION 9: Physical and chemical properties

- **9.1. Information on basic physical and chemical properties**

- **General Information**

- **Appearance:**

Form: Solid

Colour: According to product specification

- **Odour:** Light

- **pH-value:** Not applicable

- **Change in condition**

Boiling point/Boiling range: Undetermined.

Softening temperature / range: ca. 70 °C (ring + ball)

- **Flash point:** Not applicable.

- **Ignition temperature:** > 300 °C

- **Self-igniting:** Product is not selfigniting.

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

- **Density at 20 °C:** ca. 1.1 g/cm<sup>3</sup>

- **Solubility in / Miscibility with water:**

Insoluble.

- **9.2. Other information**

No further relevant information available.

### SECTION 10: Stability and reactivity

- **10.1. Reactivity** see item 10.3

- **10.2. Chemical stability** Stable when stored and used properly.

- **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:** Isocyanates

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### SECTION 11: Toxicological information

#### 11.1. Information on toxicological effects

##### Acute toxicity:

##### LD/LC<sub>50</sub> values relevant for classification:

#### 101-68-8 diphenylmethane-4,4'-diisocyanate

Oral LD<sub>50</sub> >2000 mg/kg (rat) (84/449/EWG, B.1)Dermal LD<sub>50</sub> >9400 mg/kg (rabbit) (OECD 402)Inhalative LC<sub>50</sub>/4h<sub>(Staeube,Nebel)</sub> 0.368 mg/l (rat) (OECD 403)

##### Primary irritant effect:

- on the skin: No irritant effect.

- on the eye: No irritating effect.

##### Sensitisation:

Sensitisation possible through inhalation.

Sensitisation possible through skin contact.

##### Additional toxicological information:

The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version:

Harmful

##### CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)

67/584 EC, 1272/2008 EC (28.-31.ATP, 1.ATP): Cancerogen Cat. 3 / R 40 (DSD, DPD); Cat 2 / H 351 (GHS, CLP)

Carc. 2

### SECTION 12: Ecological information

#### 12.1. Toxicity

- Aquatic toxicity: No further relevant information available.

- 12.2. Persistence and degradability No further relevant information available.

- Other information: The product is difficultly biodegradable.

- 12.3. Bioaccumulative potential No further relevant information available.

- 12.4. Mobility in soil No further relevant information available.

#### 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

Transfer to a company for special waste or take it to a collection point for hazardous waste.

Adhesive reacted completely:

Can be disposed of with household garbage in small quantities after curing.

##### Uncleaned packaging:

##### Recommendation:

Empty contaminated packagings thoroughly. Disposal must be made according to official regulations.

Non contaminated packagings may be recycled.

### SECTION 14: Transport information

- 14.1. UN-Number

Void

- 14.2. UN proper shipping name

Void

#### IMDG

- Class

No dangerous good

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- **IATA**
- **Class** Not classified as dangerous goods under IATA regulations
- **14.4. Packing group** Void
- **14.5. Environmental hazards:**
- **Marine pollutant:** No
- **14.6. Special precautions for user** Not applicable.
- **14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code** Not applicable.

### SECTION 15: Regulatory information

- **15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**  
See position 2 - Hazards Identification
- **Australian Inventory of Chemical Substances**  
  
All ingredients are listed.
- **Standard for the Uniform Scheduling of Medicines and Poisons**  
  
None of the ingredients is listed.
- **National regulations:**
- **Other regulations, limitations and prohibitive regulations Restricted to professional users.**
- **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**

- H315 Causes skin irritation.
- H317 May cause an allergic skin reaction.
- H319 Causes serious eye irritation.
- H332 Harmful if inhaled.
- H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
- H335 May cause respiratory irritation.
- H351 Suspected of causing cancer.
- H373 May cause damage to organs through prolonged or repeated exposure.

- R20 Harmful by inhalation.
- R36/37/38 Irritating to eyes, respiratory system and skin.
- R40 Limited evidence of a carcinogenic effect.
- R42/43 May cause sensitisation by inhalation and skin contact.
- R48/20 Harmful: danger of serious damage to health by prolonged exposure through inhalation.

- **Department issuing MSDS:** Safety & Environment

- **Contact:** Dr. Wolfgang Stüber

- **Abbreviations and acronyms:**

ICAO: International Civil Aviation Organisation  
 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)  
 PNEC: Predicted No-Effect Concentration (REACH)  
 LC50: Lethal concentration, 50 percent  
 LD50: Lethal dose, 50 percent  
 PBT: Persistent, Bioaccumulative and Toxic  
 vPvB: very Persistent and very Bioaccumulative  
 Acute Tox. 4: Acute toxicity, Hazard Category 4  
 Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2  
 Eye Irrit. 2: Serious eye damage/eye irritation, Hazard Category 2  
 Resp. Sens. 1: Sensitisation - Respirat., Hazard Category 1

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Skin Sens. 1: Sensitisation - Skin, Hazard Category 1

Carc. 2: Carcinogenicity, Hazard Category 2

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

STOT RE 2: Specific target organ toxicity - Repeated exposure, Hazard Category 2

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

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