

**Safety Data Sheet**  
according to HPR, Schedule 1

Printing date 04/05/2023

Version-No. 2

Reviewed on 04/05/2023

**1 Identification**· **1.1. Product identifier**· Trade name / Article No: **KLEIBERIT 707.6.10**

· 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 &amp; Co. KG

Max Becker Str. 4

D - 76356 Weingarten / Baden

Germany / Allemagne

· **Information department:**

KLEIBERIT Adhesives Canada, Inc.

45 Sheppard Avenue East, Suite 900  
Toronto, Ontario M2N 5W9  
Canada

Phone 1-416-256-5842

FAX 1-416-781-4901

Toll free 1888-443-666

· **1.4. Emergency telephone number:**

email: hse@kleiberit.com

1-800-424-9300 (CHEMTREC)

1-800-451-1403 (SARA-HOTLINE)

**2 Hazard 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.

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

Carc. 2 H351 Suspected of causing cancer.

STOT RE 2 H373 May cause damage to organs through prolonged or repeated exposure.

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

GHS08

· **Signal word** Danger· **Hazard-determining components of labeling:**

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.

H373 May cause damage to organs through prolonged or repeated exposure.

· **Precautionary statements**

P261 Avoid breathing vapours.

P280 Wear protective gloves.

P314 Get medical advice/attention if you feel unwell.

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- **NFPA-ratings (scale 0 - 4) - USA:**



Health = 1  
Fire = 0  
Reactivity = 0

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



Health = \*1  
Fire = 0  
Reactivity = 0

- **WHMIS Classes, Divisions and Subdivisions - Canada**

D2A - Very toxic material causing other toxic effects



- **Class D - Poisonous and Infectious Materials**  
Division 2 - Materials Causing Other Toxic Effects  
Subdivision B - Toxic Materials

- **CARCINOGENICITY**

diphenylmethane diisocyanate  
NTP: No IARC: 3 OSHA: No

- **2.3. Other hazards**
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.

### 3 Composition/Information on ingredients

- **3.2 Mixtures**
- **Description:** Mixture of the substances listed below with nonhazardous additions.
- **Dangerous components:**

Registry-No's	Identification / Classification GHS-CLP	%
CAS: 13463-67-7	titanium dioxide Carc. 2, H351	3-5% w/w
CAS: 101-68-8 RTECS: NQ 9350000	diphenylmethane-4,4'-diisocyanate Resp. Sens. 1, H334; Carc. 2, H351; STOT RE 2, H373; Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2A, H319; Skin Sens. 1, H317; STOT SE 3, H335	<2.5% w/w

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

### 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:** Immediately wash with water and soap and rinse thoroughly.
- **After eye contact:** Rinse opened eye for several minutes under running water.
- **Information for doctor:**
- **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.

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### 5 Firefighting measures

- **5.1. Extinguishing media**
- **Suitable extinguishing agents:**  
CO<sub>2</sub>, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **For safety reasons unsuitable extinguishing agents:**
- **Flash point :** See Pos. 9
- **5.2. Special hazards arising from the substance or mixture** No further relevant information available.
- **5.3. Advice for firefighters**
- **Protective equipment:** Wear self-contained respiratory protective device.

### 6 Accidental release measures

- **6.1. Personal precautions, protective equipment and emergency procedures**  
Wear protective equipment. Keep unprotected persons away.
- **6.2. Environmental precautions:** No special measures required.
- **6.3. Methods and material for containment and cleaning up:**  
Dispose contaminated material as waste according to item 13.
- **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.

### 7 Handling and storage

- **Handling:**
- **7.1. Precautions for safe handling**  
Appropriate regular employee training.  
Handle the substance preferably in closed system  
Enclosure or extractor facilities are required.  
Ensure good ventilation. This can be achieved by using a local exhaustion or general exhaust system. If these measures are insufficient to keep the solvent vapour concentration below the workplace limit, wear an adequate respiratory protective device.  
Not less than 3-5 air exchanges per hour  
Contact with skin and inhalation of aerosols/ vapours of the preparation should be avoided.  
Spraying: in vented cabin with laminar air flow  
Wear protective gloves/protective clothing/eye protection/face protection.  
Prevent formation of dust.  
Wear suitable respiratory protective device when decanting larger quantities without extractor facilities.  
Absorb spilled amount immediately.  
It is advised against using the product if there is a sensitivity of the airways or skin (asthma, chronic bronchitis, chronic skin disease)  
additional to professional application with multiple and/or significant contact  
limit the exposure to 4 hours
- **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:** None.
- **7.3. Specific end use(s)** No further relevant information available.

### 8 Exposure controls/ Personal protection

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

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- **8.1. Control parameters**
- **Components with limit values that require monitoring at the workplace:**

CAS No.	Designation of material	%	Type	Value	Unit
<b>13463-67-7 titanium dioxide</b>					
EL (USA)	Long-term value: 10* 3** mg/m <sup>3</sup> *total dust,**respirable fraction; IARC 2B				
EV (USA)	Long-term value: 10 mg/m <sup>3</sup> total dust				
PEL (USA)	Long-term value: 15* mg/m <sup>3</sup> *total dust				
REL (USA)	See Pocket Guide App. A				
TLV (USA)	Long-term value: 10 mg/m <sup>3</sup> withdrawn from NIC				
<b>101-68-8 diphenylmethane-4,4'-diisocyanate</b>					
EL (USA)	Long-term value: 0.005 ppm Ceiling limit value: 0.01 ppm Skin; S(R)				
EV (USA)	Long-term value: 0.005 ppm Ceiling limit value: 0.02 ppm				
TWA (USA)	Short-term value: 0.2 (10 minutes) mg/m <sup>3</sup> , 0.02 ppm Long-term value: 0.05 mg/m <sup>3</sup> , 0.005 ppm IDLH Documentation 8/16/96				
PEL (USA)	Ceiling limit value: 0.2 mg/m <sup>3</sup> , 0.02 ppm				
REL (USA)	Long-term value: 0.05 mg/m <sup>3</sup> , 0.005 ppm Ceiling limit value: 0.2* mg/m <sup>3</sup> , 0.02* ppm *10-min				
TLV (USA)	Long-term value: 0.051 mg/m <sup>3</sup> , 0.005 ppm				

**13463-67-7 titanium dioxide**

EL (USA) Long-term value: 10\* 3\*\* mg/m<sup>3</sup>  
\*total dust,\*\*respirable fraction; IARC 2B

EV (USA) Long-term value: 10 mg/m<sup>3</sup>  
total dust

PEL (USA) Long-term value: 15\* mg/m<sup>3</sup>  
\*total dust

REL (USA) See Pocket Guide App. A

TLV (USA) Long-term value: 10 mg/m<sup>3</sup>  
withdrawn from NIC

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

EL (USA) Long-term value: 0.005 ppm  
Ceiling limit value: 0.01 ppm  
Skin; S(R)

EV (USA) Long-term value: 0.005 ppm  
Ceiling limit value: 0.02 ppm

TWA (USA) Short-term value: 0.2 (10 minutes) mg/m<sup>3</sup>, 0.02 ppm  
Long-term value: 0.05 mg/m<sup>3</sup>, 0.005 ppm  
IDLH Documentation 8/16/96

PEL (USA) Ceiling limit value: 0.2 mg/m<sup>3</sup>, 0.02 ppm

REL (USA) Long-term value: 0.05 mg/m<sup>3</sup>, 0.005 ppm  
Ceiling limit value: 0.2\* mg/m<sup>3</sup>, 0.02\* ppm  
\*10-min

TLV (USA) Long-term value: 0.051 mg/m<sup>3</sup>, 0.005 ppm

- **8.2. Exposure controls**

limit the exposure to:

8 hours

- **Personal protective equipment:**

- **General protective and hygienic measures:**

The usual precautionary measures for handling chemicals should be followed.

- **Breathing equipment:**

Wear NIOSH-approved, air-purifying respirator in case of insufficient ventilation.

Combination Filter OV (Organic Vapours) / P95 (Particles and Aerosols) [42 CFR part 84]

At spray application respiratory protection must be worn.

- **Protection of hands:** Protective gloves

- **Eye protection:** Safety glasses

## 9 Physical and chemical properties

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

- **General Information**

- **Appearance:**

**Form:** Solid

**Color:** White

- **Odor:** Light

- **Odor threshold:** Not determined.

- **pH-value:** Not applicable.

- **Change in condition**

**Melting point/Melting range:** Undetermined.

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<b>Boiling point/Boiling range:</b>	Undetermined.
<b>Softening temperature / range:</b>	ca. 70 °C (~158 °F) (ring + ball)
· <b>Flash Point:</b>	Not applicable.
· <b>Flammability (solid, gaseous):</b>	Not determined.
· <b>Ignition Temperature:</b>	>300 °C (>572 °F)
· <b>Decomposition Temperature:</b>	Not determined.
· <b>Auto Igniting:</b>	Product is not selfigniting.
· <b>Danger of Explosion:</b>	Product does not present an explosion hazard.
· <b>Explosion Limits:</b>	
<b>Lower:</b>	Not determined.
<b>Upper:</b>	Not determined.
· <b>Vapor Pressure:</b>	Not applicable.
· <b>Density at 20 °C (68 °F):</b>	ca. 1.3 g/cm <sup>3</sup> (~108.49 lbs/gal)
· <b>Relative Density</b>	Not determined.
· <b>Vapour Density</b>	Not applicable.
· <b>Evaporation Rate</b>	Not applicable.
· <b>Solubility in / Miscibility with Water:</b>	Insoluble.
· <b>Partition coefficient (n-octanol/water):</b>	Not determined.
· <b>Viscosity:</b>	At room temperature: not applicable
· <b>9.2. Other information</b>	No further relevant information available.

### 10 Stability and reactivity

- **10.1. Reactivity** No further relevant information available.
- **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:** No dangerous decomposition products known.
- **Additional information:**

When hotmelt adhesives are melted and applied, vapours are set free and an unpleasant odour can occur, even if the recommended working temperature has been observed. Moreover if the prescribed working temperature is exceeded over a longer period, harmful decomposition products can develop. Therefore measures for the elimination of the vapours have to be taken, e.g. by means of an appropriate ventilation/ exhaust device.

### 11 Toxicological information

- **11.1. Information on toxicological effects**
- **Acute toxicity:** Based on available data, the classification criteria are not met.
- **LD/LC50 values that are relevant for classification:**

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

Oral LD<sub>50</sub> >10,000 mg/kg (rat) (84/449/EWG, B.1)

Dermal LD<sub>50</sub> >9,400 mg/kg (rabbit) (OECD 402)

Inhalative LC<sub>50</sub>/4h<sub>(Staeube,Nebel)</sub> 0.49 mg/l (rat) (OECD 403)

- **Primary irritant effect:**
- **on the skin:** Based on available data, the classification criteria are not met.
- **on the eye:** Based on available data, the classification criteria are not met.

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- **Sensitization:**

May cause allergy or asthma symptoms or breathing difficulties if inhaled.  
May cause an allergic skin reaction.

- **Additional toxicological information:**

- **Carcinogenic categories**

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

titanium dioxide: 2B

diphenylmethane-4,4'-diisocyanate: 3

di-tert-4-butylhydroxytoluene: 3

vinyl acetate: 2B

- **NTP (National Toxicology Program)**

None of the ingredients is listed.

## 12 Ecological information

- **12.1. Toxicity**

- **Aquatic toxicity:**

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

LC<sub>50</sub> >1,000 mg / l / 96h (fish)EC<sub>50</sub> >1,000 mg / l / 24h (water flea - Daphnia)IC<sub>50</sub> >1,640 mg / l / 72h (algae)

- **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.

- **12.5. Results of PBT and vPvB assessment**

- **PBT:** Not applicable.

- **vPvB:** Not applicable.

- **12.6. Other adverse effects** No further relevant information available.

## 13 Disposal considerations

- **13.1. Waste treatment methods**

- **Recommendation:**

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

- **Uncleaned packagings:**

- **Recommendation:**

Non contaminated packagings can be used for recycling.

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

## 14 Transport information

- **14.1. UN-Number** Unnecessary

- **14.2. UN proper shipping name** Unnecessary

- **14.3. Transport hazard class(es)** Unnecessary

- **14.4. Packing group** Unnecessary

- **14.5. Environmental hazards:** Unnecessary

- **14.6. Special precautions for user** Unnecessary

- **14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code** Unnecessary

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### 15 Regulatory information

- **15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**  
See position no 2 - Hazards Identification
- **SARA (Superfund Amendments and Reauthorization Act) - USA**
- **Section 313 (Specific toxic chemical listings):**  
101-68-8 diphenylmethane-4,4'-diisocyanate
- **TSCA (Toxic Substances Control Act) - USA**  
1317-65-3 calcium carbonate  
13463-67-7 titanium dioxide  
101-68-8 diphenylmethane-4,4'-diisocyanate  
6683-19-8 Pentaerythritol tetrakis(3-(3,5-di-tert-butyl- 4-hydroxyphenyl)propionate)
- **DSL (Canadian Domestic Substance List) - Canada**  
1317-65-3 calcium carbonate  
13463-67-7 titanium dioxide  
101-68-8 diphenylmethane-4,4'-diisocyanate
- **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.

### 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.
- **Department issuing SDS:** Safety & Environment
- **Abbreviations and acronyms:**  
DOT: US Department of Transportation  
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)  
NFPA: National Fire Protection Association (USA)  
HMIS: Hazardous Materials Identification System (USA)  
LC50: Lethal concentration, 50 percent  
LD50: Lethal dose, 50 percent  
PBT: Persistent, Bioaccumulative and Toxic  
vPvB: very Persistent and very Bioaccumulative