

Page 1/7

Safety data sheet according to EU 453/2010

Printing date 31.03.2014 Version-No. 5 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 702
- · Article number: 702.5 / 702.7 / 702.9
- · 1.2. Relevant identified uses of the substance / mixture or uses advised against

No further relevant information available.

- · Application of the substance / the preparation 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

· Further information obtainable from:

phone: +49-7244-62-0 FAX: +49-7244-700-0 Email: hse@kleiberit.com

· 1.4. Emergency telephone number:

phone: +49-7244 62 486

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

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.

· Classification according to Directive 67/548/EEC or Directive 1999/45/EC - DSD/DPD

Xn; Harmful

R40: Limited evidence of a carcinogenic effect.

R42/43: May cause sensitisation by inhalation and skin contact.

· Information concerning particular hazards for human and environment:

The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.

- · 2.2. Label elements
- · Hazard pictograms



- · Signal word Danger
- · Hazard-determining components of labelling: diphenylmethane-4,4'-diisocyanate

(Contd. on page 2)

Printing date 31.03.2014 Version-No. 5 Revision: 31.01.2014

Trade name / Article-No: KLEIBERIT 702

(Contd. of page 1)

· 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.

· Information concerning particular hazards for human and environment:

- Persons already sensitised to diisocyanates may develop allergic reactions when using this product.
- Persons suffering from asthma, eczema or skin problems should avoid contact, including dermal contact, with this product.
- This product should not be used under conditions of poor ventilation unless a protective mask with an appropriate gas filter (i.e. type A1 according to standard EN 14387) is used.
- · 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

< 2,5%

%

CAS: 101-68-8 diphenylmethane-4,4'-diisocyanate

Reg.nr.: 01-2119457014-47-XXXX Xn R20-40-48/20; Xn R42/43; Xi R36/37/38

Carc. Cat. 3

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

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.

(Contd. on page 3)

Printing date 31.03.2014 Version-No. 5 Revision: 31.01.2014

Trade name / Article-No: KLEIBERIT 702

(Contd. of page 2)

SECTION 5: Firefighting measures

- · 5.1. Extinguishing media
- · Suitable extinguishing agents:

CO2, 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 (NOx)

Isocyanates

Traces:

Hydrogen cyanide (HCN)

- · 5.3. Advice for firefighters
- · Protective equipment: Wear self-contained respiratory protective device.

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.

Wash hands before breaks and at the end of work.

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.

(Contd. on page 4)

Printing date 31.03.2014 Version-No. 5 Revision: 31.01.2014

Trade name / Article-No: KLEIBERIT 702

(Contd. of page 3)

- · 8.1. Control parameters
- · Ingredients with limit values that require monitoring at the workplace:
- · Ingredients with biological limit values:

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

BGW (Germany) 10 µg/g Kreatinin

b

4,4'-Diaminodiphenylmethan

CAS No. Designation of material Type Value Unit

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

WEL (Great Britain) Short-term value: 0,07 mg/m³

Long-term value: 0,02 mg/m³

Sen; as -NCO

0,05 mg/m³ AGW (Germany)

1;=2=(I);DFG, 11, 12, Sa, Y

PEL (USA) Short-term value: C 0,2 mg/m³, C 0,02 ppm REL (USA) Short-term value: C 0,2* mg/m³, C 0,02* ppm

Long-term value: 0,05 mg/m³, 0,005 ppm

*10-min

TLV (USA) 0.051 mg/m³. 0.005 ppm

· Additional information: WEL: workplace exposure limit

- · 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: Liaht

· Odour threshold: Not determined · pH-value: Not applicable

· Change in condition

Boiling point/Boiling range: Undetermined. **Softening temperature / range:** ca. 70 °C (ring + ball)

· Flash point: Not applicable. > 300 °C · Ignition temperature:

· Self-igniting: Product is not selfigniting.

· Danger of explosion: Product does not present an explosion hazard.

(Contd. on page 5)

Printing date 31.03.2014 Version-No. 5 Revision: 31.01.2014

Trade name / Article-No: KLEIBERIT 702

(Contd. of page 4)

· Density at 20 °C: ca. 1,1 g/cm³

· Solubility in / Miscibility with

water: Insoluble.

· Viscosity:

Dynamic: Not applicable

• **9.2. Other information** No further relevant information available.

SECTION 10: Stability and reactivity

- · 10.1. Reactivity Not applicable
- 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

SECTION 11: Toxicological information

- · 11.1. Information on toxicological effects
- · Acute toxicity:
- · LD/LC₅₀ values relevant for classification:

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

Oral LD $_{50}$ >2000 mg/kg (rat) (84/449/EWG, B.1) Dermal LD $_{50}$ >9400 mg/kg (rabbit) (OECD 402) Inhalative LC $_{50}$ /4h $_{(Staeube,Nebel)}$ 0,368 mg/l (rat) (OECD 403)

- · Primary irritant effect:
- on the skin: No irritant effect.on the eye: No irritating effect.
- · Sensitization:

Sensitization possible through inhalation. Sensitization 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:

· 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)

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.
- · Additional ecological information:
- · General notes: Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water
- · 12.5. Results of PBT and vPvB assessment
- · PBT: Not applicable.
- · vPvB: Not applicable.

(Contd. on page 6)

Printing date 31.03.2014 Version-No. 5 Revision: 31.01.2014

Trade name / Article-No: KLEIBERIT 702

• 12.6. Other adverse effects No further relevant information available.

(Contd. of page 5)

SECTION 13: Disposal considerations

- · 13.1. Waste treatment methods
- · Recommendation

Hand over to hazardous waste disposers.

Adhesive reacted completely:

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

· European waste catalogue

08 04 09*: waste adhesives and sealants containing organic solvents or other dangerous substances Adhesive reacted completely:

08 04 10: waste adhesives and sealants other than those mentioned in 08 04 09

- · 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
· ADR	Void
· 14.2. UN proper shipping name	Void

· 14.3. Transport hazard class(es)

· ADR

· Class No dangerous good

· Label -

· IMDG

· Class No dangerous good

·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
- · EU-Regulations

101-68-8 diphenylmethane-4,4'-diisocyanate: REACH, Annex XVII, No. 56

- · National regulations:
- · D: Waterhazard class Water hazard class 1 (Self-assessment): slightly hazardous for water.
- Other regulations, limitations and prohibitive regulations Restricted to professional users.

Observe the restriction of application in accordance to Regulation (EC) 1907/2006 (REACH), Annex XVII

· 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.

(Contd. on page 7)

Version-No. 5 Revision: 31.01.2014 Printing date 31.03.2014

Trade name / Article-No: KLEIBERIT 702

(Contd. of page 6)

· Relevant phrases

H315	Causes	skin	irritation.
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- 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.
- May cause damage to organs through prolonged or repeated exposure. H373
- 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 Organization

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 Harmonized System of Classification and Labelling of Chemicals

CAS: Chemical Abstracts Service (division of the American Chemical Society)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

* Data compared to the previous version altered.