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# Safety data sheet according to Regulation (EC) No. 1907/2006 as amended from time to time

Printing date 25.04.2024 Version-No. 1.0 Revision: 25.04.2024

# SECTION 1: Identification of the substance/mixture and of the company/undertaking

- · 1.1. Product identifier
- · Trade name / Article-No: KLEIBERIT 701.6.50 ME
- · UFI: KCDV-D05D-300V-XAKD
- · 1.2. Relevant identified uses of the substance / mixture or uses advised against

For professional users only.

- · Application of the substance / the mixture Adhesives
- · 1.3. Details of the supplier of the safety data sheet
- Manufacturer/Supplier:

KLEIBERIT SE & Co. KG

Max-Becker-Str. 4

76356 Weingarten

Germany

· Further information obtainable from:

phone: +49 (0) 7244 62-0 FAX: +49 (0) 7244 700-0

E-Mail: hse@kleiberit.com

- · 1.4. Emergency telephone number:
- +44 1235 239670 European regional number (European languages)
- 112 Emergency telephone number for Malta

543 22 22 Icelandic University Hospital

#### **SECTION 2: Hazards identification**

- · 2.1. Classification of the substance or mixture
- · Classification according to Regulation (EC) No 1272/2008 GHS/CLP

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

- · 2.2. Label elements
- · Hazard pictograms



GHS07

- · Signal word Warning
- · Hazard-determining components of labelling:

aliphatic polyisocyanate, based on HDI

· Hazard statements

H317 May cause an allergic skin reaction.

· Precautionary statements

P261 Avoid breathing vapours.

P280 Wear protective gloves.

P314 Get medical advice/attention if you feel unwell.

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

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### **SECTION 3: Composition/information on ingredients**

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

Registry-No's Identifica

**Identification / Classification GHS-CLP** 

%

CAS: 28182-81-2 aliphatic polyisocyanate, based on HDI

≥1-<2%

Reg.nr.: 01-2119485796-17-XXXX Acute Tox. 4, H332; Skin Sens. 1, H317; STOT SE 3, H335

ATE: LC<sub>50</sub> /4 h inhalative: 11 mg/l

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

### **SECTION 4: First aid measures**

- · 4.1. Description of first aid measures
- · After inhalation: Supply fresh air; consult doctor in case of complaints.
- · After skin contact:

Treat affected skin with cotton wool or cellulose. Then wash and rinse thoroughly with water and a mild cleaning agent.

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: Call for a doctor immediately.
- · 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.

# **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.

- 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.

### **SECTION 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: Ensure adequate ventilation.
- · 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**

#### · 7.1. Precautions for safe handling

Handle the substance preferably in closed system

Ensure good ventilation. This can be achieved by using a local exhaustion or general exhaust system. If these measures are insufficient to keep the vapour concentration below the workplace limit, wear an adequate respiratory protective device.

not less than 1-3 air exchanges per hour

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Wear protective gloves/protective clothing/eye protection/face protection.

Prevent formation of dust.

regular check up, maintenance and cleaning of equipment and machines

It is advised against using the product if there is a sensitivity of the airways or skin (asthma, chronic bronchitis, chronic skin disease)

Allow access to authorised personnel only.

have emergency plan in place, to minimize impact

Clean the pipe before decoupling

### General protective and hygienic measures:

Appropriate regular employee training.

Keep good industrial hygiene.

- · 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.

### **SECTION 8: Exposure controls/personal protection**

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

### 28182-81-2 aliphatic polyisocyanate, based on HDI

Inhalative DNEL short term 1 mg/m3 (human being)

DNEL long term 0.5 mg/m3 (human being)

· PNECs

### 28182-81-2 aliphatic polyisocyanate, based on HDI

PNEC- Freshwater 0.127 mg/l (not specified)
PNEC-seawater 0.0127 mg/l (not specified)
PNEC-periodic release 1.27 mg/l (not specified)
PNEC-Freshwater sediment 26,670 mg/kg (not specified)
PNEC-soil 53,182 mg/kg (not specified)
PNEC-wastewater treatment plant 38.28 mg/l (not specified)

### · 8.2. Exposure controls

limit the exposure to:

8 hours

- · Appropriate engineering controls No further data; see section 7.
- · Individual protection measures, such as personal protective equipment
- General protective and hygienic measures:

Immediately remove all soiled and contaminated clothing

Wash hands before breaks and at the end of work.

Use skin protection cream for skin protection.

- · Respiratory protection: Filter A/P2
- · Hand protection

Protective aloves

Heat resistant gloves

· Material of gloves

A Nitrile rubber - NBR: AlphaTec® (> 0,4 mm)

Leather gloves

· Eye/face protection Safety glasses

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- · Body protection: Protective work clothing
- · Thermal hazards Risk of burns during thermal processing.

### **SECTION 9: Physical and chemical properties**

9.1. Information on basic physical and chemical properties

· General Information

· Physical state Solid

· Colour: According to product specification

· Odour: Light

Odour threshold: Not determined.
 Melting point/freezing point: Undetermined.

Boiling point or initial boiling point and boiling

range Undetermined.
• Flammability Not determined.

· Lower and upper explosion limit

Lower: Not determined.
Upper: Not determined.
Flash point: Not applicable.
Auto-ignition temperature: >300 °C

Decomposition temperature: Not determined.pH Not applicable.

• Viscosity: At room temperature: not applicable

Kinematic viscosityDynamic:Not applicable.

· Solubility

water: Insoluble.
 Partition coefficient n-octanol/water (log value) Not determined.

· Vapour pressure: Not applicable.

Density and/or relative density

Density at 20 °C:
 Relative density
 Vapour density
 Ca. 1.1 g/cm³
 Not determined.
 Not applicable.

Particle characteristics

See section 3.

· 9.2. Other information

· Appearance:

· Form: Solid

Important information on protection of health and environment, and on safety.

· **Ignition temperature:** Product is not selfigniting.

• Explosive properties: Product does not present an explosion hazard.

· Change in condition

· Evaporation rate Not applicable.

Information with regard to physical hazard classes

Explosives
Flammable gases
Aerosols
Oxidising gases
Gases under pressure
Flammable liquids
Flammable solids

Self-reactive substances and mixturesPyrophoric liquidsVoid

Pyrophoric solids Void

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· Self-heating substances and mixtures · Substances and mixtures, which emit flammable	Void	(Contd. of page 4)
gases in contact with water	Void	
· Oxidising liquids	Void	
Oxidising solids	Void	
· Organic peroxides	Void	
Corrosive to metals	Void	
· Desensitised explosives	Void	

# **SECTION 10: Stability and reactivity**

· 10.1. Reactivity

see item 10.3

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. Precautions should be taken to eliminate the vapours, e.g. by using a suitable ventilation system.

Therefore measures for the elimination of the vapours have to be taken, e.g. by means of an appropriate ventilation/ exhaust device.

### **SECTION 11: Toxicological information**

- · 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008
- · Acute toxicity Based on available data, the classification criteria are not met.
- LD/LC<sub>50</sub> values relevant for classification:

### 28182-81-2 aliphatic polyisocyanate, based on HDI

Oral LD<sub>50</sub> >2,500 mg/kg (rat)

weibliche Ratte >2500 mg/kg

Dermal LD<sub>50</sub> >2,000 mg/kg (rabbit) (OECD 402)

>2,000 mg/kg (rat) (OECD 402)

Inhalative LC<sub>50</sub> /4 h 11 mg/l (ATE)

- · Skin corrosion/irritation Based on available data, the classification criteria are not met.
- · Serious eye damage/irritation Based on available data, the classification criteria are not met.
- · Respiratory or skin sensitisation May cause an allergic skin reaction.
- Germ cell mutagenicity Based on available data, the classification criteria are not met.
- · Carcinogenicity Based on available data, the classification criteria are not met.
- · Reproductive toxicity Based on available data, the classification criteria are not met.
- · STOT-single exposure Based on available data, the classification criteria are not met.
- STOT-repeated exposure Based on available data, the classification criteria are not met.
- · Aspiration hazard Based on available data, the classification criteria are not met.
- · 11.2 Information on other hazards
- · Endocrine disrupting properties

None of the ingredients is listed.

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### **SECTION 12: Ecological information**

- · 12.1. Toxicity
- · Aquatic toxicity:

#### 28182-81-2 aliphatic polyisocyanate, based on HDI

LC<sub>50</sub> >100 mg / I / 96h (Zebrafish - Danio rerio)

 $EC_{50} > 100 \text{ mg} / I / 48h \text{ (water flea - daphnia)}$ 

 $EC_{50} > 100 \text{ mg} / I / 72h \text{ (algae)}$ 

- 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 Endocrine disrupting properties

The product does not contain substances with endocrine disrupting properties.

- · 12.7 Other adverse effects
- · Additional ecological information:
- · General notes: Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water

### **SECTION 13: Disposal considerations**

- · 13.1. Waste treatment methods
- Recommendation

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

· European waste catalogue

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

- · Uncleaned packaging:
- Recommendation:

Non contaminated packagings may be recycled.

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

# **SECTION 14: Transport information**

· 14.1. UN number or ID number

· ADR, IMDG, IATA Void

· 14.2. UN proper shipping name

· DOT, ADR, IMDG, IATA Void

· 14.3. Transport hazard class(es)

· Class Void

· 14.4. Packing group

· ADR, IMDG, IATA Void

• 14.5. Environmental hazards: Not applicable. • 14.6. Special precautions for user Not applicable.

· 14.7. Maritime transport in bulk according to IMO

**instruments** Not applicable.

### **SECTION 15: Regulatory information**

- · 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture See position no 2 Hazards Identification
- · Directive 2012/18/EU Seveso-III:
- · Named dangerous substances ANNEX I None of the ingredients is included.

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Regulation (EU) No 649/2012

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None of the ingredients is listed.

DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment - Annex II

None of the ingredients is listed.

- REGULATION (EU) 2019/1148
- · Annex I RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))

None of the ingredients is listed.

· Annex II - REPORTABLE EXPLOSIVES PRECURSORS

None of the ingredients is listed.

Regulation (EC) No 273/2004 on drug precursors

None of the ingredients is listed.

Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors

None of the ingredients is listed.

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

H317 May cause an allergic skin reaction.

H332 Harmful if inhaled.

H335 May cause respiratory irritation.

- · Department issuing SDS: Safety & Environment
- Abbreviations and acronyms:

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the

International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

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)

DNEL: Derived No-Effect Level (RÈACH)

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

ATE: Acute toxicity estimate values

Acute Tox. 4: Acute toxicity - Category 4

Skin Sens. 1: Skin sensitisation - Category 1

STOT SE 3: Specific target organ toxicity (single exposure) - Category 3