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Safety data sheet according to 1907/2006/EC, Article 31

Printing date 04.03.2022

Version-No. 1

Revision: 04.03.2022

SECTION 1: Identification of the substance/mixture and of the company/undertaking
· 1.1. Product identifier
· Trade name / Article-No: KLEIBERIT 713.4.54 ME
 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: KLEIBERIT SE & Co. KG Max-Becker-Str. 4 D - 76356 Weingarten / Baden 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)
SECTION 2: Hazards identification
· 2.1. Classification of the substance or mixture
Classification according to Regulation (EC) No 1272/2008 - GHS/CLP The product is not classified as hazardous to health or environment according to the CLP regulation.
 2.2. Label elements Hazard pictograms Void Signal word Void Hazard statements Void Hazard statements Void Additional information: Safety data sheet available on request. Contains isocyanates. May produce an allergic reaction. 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 substances listed below with nonhazardous additions.
· Dangerous components:
Registry-No's Identification / Classification GHS-CLP %
CAS: 5873-54-1 Reg.nr.: 01-2119480143-45-XXXX 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, EUH204 Specific concentration limits: Skin Irrit. 2; H315: $C \ge 5$ % Eye Irrit. 2; H319: $C \ge 5$ % Resp. Sens. 1; H334: $C \ge 0.1$ % STOT SE 3; $C \ge 5$ % (Contd. on page 2)
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• 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:

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: 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 Not required.
- 6.2. Environmental precautions: No special measures required.
- 6.3. Methods and material for containment and cleaning up: 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

· 7.1. Precautions for safe handling Prevent formation of dust.

- 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

5873-54-1 diphenylmethane-2,4'-diisocyanate

Dermal DNEL short term 50 mg/kg (human being)

Inhalative DNEL short term 0.1 mg/m3 (human being)

DNEL long term 0.05 mg/m3 (human being)

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PNECs	(Contd. of page 2)				
T NEOS					
5873-54-1 diphenylmethane-2,4'-diisocyanate					
PNEC- Freshwater 1 mg/l (not specifie	ed)				
PNEC-seawater 0.1 mg/l (not speci	fied)				
PNEC-soil 1 mg/kg (not spec	•				
PNEC-wastewater treatment plant 1 mg/l (not specific					
	Value Unit				
•					
5873-54-1 diphenylmethane-2,4'-diisocyanate					
AGW (Germany) Long-term value: 0.05 mg/m³ 1;=2=(I);AGS, 11, 12					
· 8.2. Exposure controls					
limit the exposure to:					
8 hours					
 Appropriate engineering controls No further data; 	see item 7.				
Individual protection measures, such as personal	protective equipment				
General protective and hygienic measures:	General protective and hygienic measures:				
The usual precautionary measures are to be adhered	to when handling chemicals.				
Respiratory protection: Filter A/P2 (EN 14387)					
· Hand protection					
Protective gloves Heat resistant gloves					
· Material of gloves					
A Nitrile rubber - NBR: AlphaTec® (> 0,4 mm)					
Leather gloves					
• Eye/face protection Safety glasses					
· Body protection: Protective work clothing					
 Thermal hazards Risk of burns during thermal proce 	ssing.				
SECTION 9: Physical and chemical prope	erties				
• 9.1. Information on basic physical and chemical p	roperties				
· 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.				
range · Flammability	Not determined.				
· Lower and upper explosion limit	Not determined.				
· Lower:	Not determined.				
· Upper:	Not determined.				
Flash point:	Not applicable.				
Ignition temperature:	>300 °C (polymer of polyether polyester polyol and				
• .	diphenylmethane diisocyanate)				
 Decomposition temperature: 	Not determined.				
·рН	Not applicable.				
· Viscosity:	At room temperature: not applicable				
Kinematic viscosity	Not applicable.				
Dynamic:	Not applicable.				
Solubility					
water:	Insoluble.				
 Partition coefficient n-octanol/water (log value) 	Not determined. (Contd. on page 4)				

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Vapour pressure:Not applicable.Density and/or relative densityca. 1.1 g/cm³Density at 20 °C:ca. 1.1 g/cm³Relative densityNot determined.Vapour densityNot applicable.Particle characteristicsSee item 3.9.2. Other informationSee item 3.Form:SolidImportant information on protection of health and environment, and on safety.		(Contd. of page 3)
 Density at 20 °C: Ca. 1.1 g/cm³ Relative density Not determined. Vapour density Not applicable. Particle characteristics See item 3. 9.2. Other information Appearance: Form: Solid Important information on protection of health and environment, and on safety. 		Not applicable.
· Relative density Not determined. · Vapour density Not applicable. · Particle characteristics See item 3. · 9.2. Other information See item 3. · Appearance: Solid · Important information on protection of health and environment, and on safety. Solid		
· Vapour density Not applicable. · Particle characteristics See item 3. · 9.2. Other information - · Appearance: - · Form: Solid · Important information on protection of health and environment, and on safety. -		
Particle characteristics See item 3. 9.2. Other information Appearance: Appearance: Solid Important information on protection of health and environment, and on safety. Solid		
 9.2. Other information Appearance: Form: Solid Important information on protection of health and environment, and on safety. 	• •	
 Appearance: Form: Solid Important information on protection of health and environment, and on safety. 	 Particle characteristics 	See item 3.
Form: Solid Important information on protection of health and environment, and on safety.	[•] 9.2. Other information	
Form: Solid Important information on protection of health and environment, and on safety.	· Appearance:	
environment, and on safety.	••	Solid
environment, and on safety.	· Important information on protection of health and	
• Auto-ignition temperature: Product is not selfigniting.	Auto-ignition temperature:	Product is not selfigniting.
• Explosive properties: Product does not present an explosion hazard.	Explosive properties:	Product does not present an explosion hazard.
Change in condition	Change in condition	
• Evaporation rate Not applicable.	· Evaporation rate	Not applicable.
· Information with regard to physical hazard classes	· Information with regard to physical hazard classes	5
• Explosives Void	• • •	
· Flammable gases Void		Void
· Aerosols Void	•	Void
· Oxidising gases Void	· Oxidising gases	Void
· Gases under pressure Void	· Gases under pressure	Void
· Flammable liquids Void		Void
Flammable solids Void	Flammable solids	Void
· Self-reactive substances and mixtures Void	 Self-reactive substances and mixtures 	Void
· Pyrophoric liquids Void	· Pyrophoric liquids	Void
Pyrophoric solids Void	Pyrophoric solids	Void
• Self-heating substances and mixtures Void	Self-heating substances and mixtures	Void
 Substances and mixtures, which emit flammable 	• Substances and mixtures, which emit flammable	
gases in contact with water Void	gases in contact with water	Void
· Oxidising liquids Void	· Oxidising liquids	Void
· Oxidising solids Void	• Oxidising solids	Void
· Organic peroxides Void	· Organic peroxides	Void
· Corrosive to metals Void	Corrosive to metals	Void
· Desensitised explosives 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.

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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/LC₅₀ values relevant for classification:

5873-54-1 diphenylmethane-2,4'-diisocyanate

- Oral LD₅₀ >2,000 mg/kg (rat) (84/449/EWG, B.1)
- Dermal LD_{50} >9,400 mg/kg (rabbit) (OECD 402)
- Inhalative LC_{50} /4 h 1.5 mg/l (rat) (Calculation (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 Based on available data, the classification criteria are not met.
- · 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.

SECTION 12: Ecological information

12.1. Toxicity

• Aquatic toxicity:

5873-54-1 diphenylmethane-2,4'-diisocyanate

LC₅₀ >1,000 mg / I / 96h (Zebrafish - Danio rerio)

EC₅₀ >1,000 mg / I / 24h (water flea - daphnia)

- IC₅₀ >1,640 mg / I / 72h (Chlorophyceae Scenedesmus subspicatus)
- 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.

- [·] 12.6. Other adverse effects
- · Behaviour in sewage processing plants:
- · Remark:

At correct sewage disposal in small quantities to biological sewage plants failures of the activated sludge are not expected.

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

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· 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 t 		
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.

• Regulation (EC) No 1907/2006 - REACH, ANNEX XVII Conditions of restriction: 3

Regulation (EU) No 649/2012

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.

• 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.

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· 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.	
EUH204 Contains isocyanates. May produce an allergic reaction.	
 Department issuing SDS: Safety & Environment 	
Abbreviations and acronyms:	
ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concer	rning 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	
Acute Tox. 4: Acute toxicity – Category 4	
Skin Irrit. 2: Skin corrosion/irritation – Category 2 Eye Irrit. 2: Serious eye damage/eye irritation – Category 2	
Resp. Sens. 1: Respiratory sensitisation – Category 1	
Skin Sens. 1: Skin sensitisation – Category 1	
Carc. 2: Carcinogenicity – Category 2	
STOT SE 3: Specific target organ toxicity (single exposure) – Category 3 STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2	