



## Safety Data Sheet according to WHS Regulations

Printing date 30.05.2018

Version-No. 6

Revision: 30.05.2018

### SECTION 1: Identification

- **1.1. Product identifier**
- **Trade name / Article-No: KLEIBERIT 569.0**
- **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
- **Uses advised against**  
Shall not be used in toys and childcare articles which can be placed in the mouth by children.
- **1.3. Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**

KLEBCHEMIE	KLEIBERIT Australia Pty Limited
M.G.Becker GmbH & Co. KG	
Max Becker Str. 4	Unit 36, 42-46 Wattle Road
D - 76356 Weingarten / Baden	BROOKVALE NSW 2100
Germany	Australia
- **Further information obtainable from:**

phone: +49-7244-62-0 (Germany)	phone: +61-2-9907 1411
FAX: +49-7244-700-0	FAX: +61-2-9938 4091
email: hse@kleiberit.com	
- **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)

### SECTION 2: Hazard(s) Identification

- **2.1. Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008 - GHS/CLP**
  - Skin Irrit. 2 H315 Causes skin irritation.
  - Eye Irrit. 2A H319 Causes serious eye irritation.
  - 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 SE 3 H335 May cause respiratory irritation.
  - STOT RE 2 H373 May cause damage to the respiratory system through prolonged or repeated exposure.
- **2.2. Label elements**
- **Hazard pictograms**

GHS07 GHS08
- **Signal word** Danger
- **Hazard-determining components of labelling:**  
Diphenylmethane diisocyanate (isomer mixture)
- **Hazard statements**
  - H315 Causes skin irritation.
  - H319 Causes serious eye irritation.
  - H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
  - H317 May cause an allergic skin reaction.

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H351 Suspected of causing cancer.  
 H335 May cause respiratory irritation.  
 H373 May cause damage to the respiratory system through prolonged or repeated exposure.

**Precautionary statements**

P260 Do not breathe vapours.  
 P280 Wear protective gloves / eye protection.  
 P302+P352 IF ON SKIN: Wash with plenty of water and soap.  
 P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 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.

### SECTION 3: Composition and Information on Ingredients

**3.2 Mixtures**

• **Description:** Mixture of substances listed below with nonhazardous additions.

**Dangerous components:**

Registry-No's	Identification / Classification GHS-CLP	%
26447-40-5	Diphenylmethane diisocyanate (isomer mixture) 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	40-50%
6425-39-4	2,2'-dimorpholinyl-diethyl ether Eye Irrit. 2A, H319; Acute Tox. 5, H303; Acute Tox. 5, H313	< 2.5%

• **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**
**General information:**

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

**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:**

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.

**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.

### SECTION 5: Fire Fighting 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.

**5.2. Special hazards arising from the substance or mixture**

Formation of toxic gases is possible during heating or in case of fire.

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Nitrogen oxides (NOx)

Isocyanates

- **5.3. Advice for firefighters**

- **Protective equipment:**

Mount respiratory protective device.

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.

Wear protective clothing.

- **6.2. Environmental precautions:** No special measures required.

- **6.3. Methods and material for containment and cleaning up:**

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Use neutralising agent.

Dispose contaminated material as waste according to item 13.

Ensure adequate ventilation.

Take up mechanically; cover residues with wet, liquidbinding material (saw dust, universal binder - diatomite, sand). Take up after 1 hour in receptacles, don't close tight (development of CO2 !). Be aware that sufficient moisture is present and keep outdoors for several days.

- **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**

Appropriate regular employee training.

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 3-5 air exchanges per hour

Prevent formation of aerosols.

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

Store in cool, dry place in tightly closed receptacles.

Avoid contact with skin and eyes.

Absorb spilled amount immediately.

- **Information about fire - and explosion protection:** No special measures required.

- **7.2. Conditions for safe storage, including any incompatibilities**

- **Storage:**

- **Requirements to be met by storerooms and receptacles:** Store only in unopened original receptacles.

- **Information about storage in one common storage facility:** Observe the national regulations.

- **Further information about storage conditions:**

Protect from frost.

Protect from humidity and water.

- **7.3. Specific end use(s)** No further relevant information available.

### SECTION 8: Exposure controls and 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:**

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

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- **PNECs**

**26447-40-5 Diphenylmethane diisocyanate (isomer mixture)**

PNEC- Freshwater	1 mg/l (x00)
PNEC-seawater	0.1 mg/l (x00)
PNEC-soil	1 mg/kg (x00)
PNEC-wastewater treatment plant	1 mg/l (x00)

**6425-39-4 2,2'-dimorpholinyldiethyl ether**

PNEC- Freshwater	0.1 mg/l (x00)
PNEC-seawater	0.01 mg/l (x00)
PNEC-Freshwater sediment	8.2 mg/kg (x00)
PNEC-Meeressediment	0.82 mg/kg (x00)
PNEC-soil	1.58 mg/kg (x00)
PNEC-wastewater treatment plant	100 mg/l (x00)

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

**26447-40-5 Diphenylmethane diisocyanate (isomer mixture)**

WES (Australia)	Short-term value: 0.07 mg/m <sup>3</sup>
	Long-term value: 0.02 mg/m <sup>3</sup>
	Sen, as -NCO
WES (New Zealand)	Short-term value: 0.07 mg/m <sup>3</sup>
	Long-term value: 0.02 mg/m <sup>3</sup>
	sen, vapours, mist, dust; as -NCO

- **8.2. Exposure controls**

limit the exposure to:

8 hours

- **Personal protective equipment:**

- **General protective and hygienic measures:**

Do not inhale gases / fumes / aerosols.

Avoid contact with the eyes and skin.

- **Respiratory protection:**

Not necessary if room is well-ventilated.

Use suitable respiratory protective device in case of insufficient ventilation:

Filter ABEK (DIN EN 14 387)

- **Protection of hands:**

- **Material of gloves**

A Nitrile rubber - NBR: AlphaTec® (coating thickness not applicable)

D butyl rubber - BR: ChemTek™ (0,7 mm)

G Chloroprene rubber - CR: Neotop® (0.75 mm)

- **Eye protection:** Tightly sealed goggles

### SECTION 9: Physical and Chemical Properties

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

- **General Information**

- **Appearance:**

**Form:** Highly viscous

**Colour:** Cream coloured

- **Odour:** Light

- **Odour threshold:** Not determined.

- **pH-value:** Not determined.

- **Change in condition**

**Melting point/freezing point:** Undetermined.

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Initial boiling point and boiling range: &gt;200 °C

- **Flash point:** Not applicable.
- **Flammability (solid, gas):** Not applicable.
- **Ignition temperature:** >200 °C
- **Decomposition temperature:** >140 °C
- **Auto-ignition temperature:** Product is not selfigniting.
- **Explosive properties:** Product does not present an explosion hazard.
- **Explosion limits:**
  - Lower:** Not determined.
  - Upper:** Not determined.
- **Vapour pressure at 20 °C:** 0 hPa
- **Density at 20 °C:** ca. 1.1 g/cm<sup>3</sup>
- **Relative density** Not determined.
- **Vapour density** Not determined.
- **Evaporation rate** Not determined.
- **Solubility in / Miscibility with water:** Not miscible or difficult to mix.
- **Partition coefficient: n-octanol/water:** Not determined.
- **Viscosity:**
  - Dynamic at 20 °C:** ca. 400.000 mPas  
Method: Brookfield RVT
  - Kinematic:** Not determined.
- **Solids content:** 100.0 %
- **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:** No dangerous decomposition products known.

### SECTION 11: Toxicological Information

- **11.1. Information on toxicological effects**
- **Acute toxicity** Based on available data, the classification criteria are not met.
- **LD/LC<sub>50</sub> values relevant for classification:**

#### 26447-40-5 Diphenylmethane diisocyanate (isomer mixture)

Oral LD<sub>50</sub> >10,000 mg/kg (rat)  
 Dermal LD<sub>50</sub> >9,400 mg/kg (rabbit)  
 Inhalative LC<sub>50</sub>/4h<sub>(dust,mist)</sub> 0.49 mg/l (rat)

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**6425-39-4 2,2'-dimorpholinyldiethyl ether**

Oral LD<sub>50</sub> 2,020 mg/kg (rat)  
 Dermal LD<sub>50</sub> 3,030 mg/kg (kan)  
 Leichte Reizwirkung an der Haut:  
 Index 2,70/8,0 (Draize-Methode, Kaninchen)  
 Reizwirkung am Auge:  
 Index 22,5/1010 (Draize-Methode, Kaninchen)

- **Primary irritant effect:**
- **Skin corrosion/irritation**  
Causes skin irritation.
- **Serious eye damage/irritation**  
Causes serious eye irritation.
- **Respiratory or skin sensitisation**  
May cause allergy or asthma symptoms or breathing difficulties if inhaled.  
May cause an allergic skin reaction.
- **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**
- **Germ cell mutagenicity** Based on available data, the classification criteria are not met.
- **Carcinogenicity**  
Suspected of causing cancer.
- **Reproductive toxicity** Based on available data, the classification criteria are not met.
- **STOT-single exposure**  
May cause respiratory irritation.
- **STOT-repeated exposure**  
May cause damage to the respiratory system through prolonged or repeated exposure.
- **Aspiration hazard** Based on available data, the classification criteria are not met.

**SECTION 12: Ecological Information**

- **12.1. Toxicity**
- **Aquatic toxicity:**

**26447-40-5 Diphenylmethane diisocyanate (isomer mixture)**

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

**6425-39-4 2,2'-dimorpholinyldiethyl ether**

EC<sub>50</sub> >100 mg / l / 48h (water flea - Daphnia)

- **12.2. Persistence and degradability** No further relevant information available.
- **Other information:** The product is not easily biodegradable.
- **12.3. Bioaccumulative potential** No further relevant information available.
- **12.4. Mobility in soil** No further relevant information available.
- **Ecotoxicological 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:**  
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.
- **12.5. Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **12.6. Other adverse effects** No further relevant information available.

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### SECTION 13: Disposal considerations

- **13.1. Waste treatment methods**

- **Recommendation**

After prior treatment product has to be disposed of in an incinerator for hazardous waste adhering to the regulations pertaining to the disposal of particularly hazardous waste.

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

- **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** No dangerous good

- **DOT, ADG, ADN, IMDG, IATA** Void

- **14.2. UN proper shipping name**

- **DOT, ADG, ADN, IMDG, IATA** Void

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

- **DOT**

- **Class** Void

No dangerous good

- **Class**

Void

- **14.4. Packing group**

- **DOT, ADG, IMDG, IATA** 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**

**Marpol 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 no 2 - Hazards Identification

- **Australian Inventory of Chemical Substances**

26447-40-5 Diphenylmethane diisocyanate (isomer mixture)

26761-40-0 di-isodecyl phthalate

6425-39-4 2,2'-dimorpholinyl-diethyl ether

28553-12-0 di-isononylphthalate (I)

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

- **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.**

- **EU: VOC - Volatile Organic Compounds (Directive 13/1999/EC)**

- **VOC - portion [g/L]:** 0.0 g/l

- **VOC - portion [mass-%]:** 0.00 %

- **(D) GISCODE for Flooring**

- **Informations of the Employer's Liability Insurance Association for Building Construction -**

RU1 - Solventfree Polyurethane Flooring Materials

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- **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**

- H303 May be harmful if swallowed.
- H313 May be harmful in contact with skin.
- 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 the respiratory system through prolonged or repeated exposure.

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

- **Abbreviations and acronyms:**

- RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
- ICAO: International Civil Aviation Organisation
- 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
- 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)
- 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. 5: Acute toxicity – Category 5
- Acute Tox. 4: Acute toxicity – Category 4
- Skin Irrit. 2: Skin corrosion/irritation – Category 2
- Eye Irrit. 2A: Serious eye damage/eye irritation – Category 2A
- Resp. Sens. 1: Respiratory sensitisation – Category 1
- Skin Sens. 1: Skin sensitisation – Category 1
- Carc. 2: Carcinogenicity – Category 2
- 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

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