



Safety Data Sheet according to HPR, Schedule 1

Printing date 11/19/2023



Version-No. 7

Reviewed on 11/19/2023

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**
Restricted to professional users.
- **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 & Co. KG
Max Becker Str. 4
D - 76356 Weingarten / Baden
Germany
- KLEIBERIT Adhesives Canada, Inc.
45 Sheppard Avenue East, Suite 900
Toronto, Ontario M2N 5W9
Canada
- **Information department:**
e-mail: hse@kleiberit.com
- Phone 1-704-843-3339
FAX 1-704-843-4930
- **1.4. Emergency telephone number:**
+1 800 579 7421 Canada (English, French)
+1 215 207 0061 Americas regional number (English, Spanish, Portuguese)

2 Hazard 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.
Route of exposure: Inhalation.
- **2.2. Label elements**
- **Hazard pictograms**


 GHS07 GHS08
- **Signal word** Danger
- **Hazard-determining components of labeling:**
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.
H351 Suspected of causing cancer.

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H335 May cause respiratory irritation.

H373 May cause damage to the respiratory system through prolonged or repeated exposure. Route of exposure: Inhalation.

- **Precautionary statements**

P260 Do not breathe vapours.

P280 Wear protective gloves / eye protection.

P302+P352 If on skin: Wash with plenty of soap and water.

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.

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



Health = 2

Fire = 1

Reactivity = 0

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



Health = 2

Fire = 1

Reactivity = 0

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

D1A - Very toxic material causing immediate and serious toxic effects

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	%
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	20-50% w/w *
6425-39-4	2,2'-dimorpholinylether Eye Irrit. 2A, H319	<2% w/w

* Actual concentration ranges are withheld as a trade secret.

- **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**

- **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.

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- 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.

5 Firefighting measures

- **Flammability**
See 9 - Physical and chemical properties
- Flash point
- **If yes, under which conditions ?** Not flammable. Not combustible. Flash point >93.3 °C / > 200 °F
- **5.1. Extinguishing media**
- **Suitable extinguishing agents:**
CO₂, 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**
Formation of toxic gases is possible during heating or in case of fire.
Nitrogen oxides (NO_x)
Isocyanates
- **5.3. Advice for firefighters**
- **Protective equipment:**
Mount respiratory protective device.
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.
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 neutralizing agent.
Dispose contaminated material as waste according to item 13.
Ensure adequate ventilation.
Take up mechanically; cover residues with wet, liquid-binding 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.

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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 solvent 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 protection against explosions and fires:** 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.

8 Exposure controls/ Personal protection

- **Additional information about design of technical systems:** No further data; see item 7.
- **8.1. Control parameters**
- **Components 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.
- **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.
- **Breathing equipment:**
 - Wear NIOSH-approved, air-purifying respirator in case of insufficient ventilation.
 - Not necessary if room is well-ventilated.
 - Filter ABEK (DIN EN 14 387)
- **Protection of hands:**
- **Material of gloves**
 - A Nitrile rubber - NBR: AlphaTec® (Lamination strength not applicable)
 - D butyl rubber - BR: ChemTek™ (0,7 mm)
 - G Chloroprene rubber - CR: Neotop® (0,75 mm)
- **Eye protection:** Tightly sealed goggles
- **Thermal hazards** None

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9 Physical and chemical properties

9.1. Information on basic physical and chemical properties

General Information

Appearance:

Form: Highly viscous

Color: Cream colored

Odor: Light

Odor threshold: Not determined.

pH-value: Not determined.

Change in condition

Melting point/Melting range: Undetermined.

Boiling point/Boiling range: >200 °C (>392 °F)

Flash Point: Not applicable.

Flammability (solid, gaseous): Not applicable.

Ignition Temperature: >200 °C (>392 °F)

Decomposition Temperature: >140 °C (>284 °F)

Auto Igniting: Product is not selfigniting.

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

Explosion Limits:

Lower: Not determined.

Upper: Not determined.

Vapor Pressure at 20 °C (68 °F): 0 hPa (0 mm Hg)

Density at 20 °C (68 °F): ca. 1.1 g/cm³ (~9.18 lbs/gal)

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 (68 °F): ca. 400.000 mPas

Brookfield RVT

Kinematic: Not determined.

9.2. Other information: No further relevant information available.

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.

11 Toxicological information

11.1. Information on toxicological effects

Acute toxicity: Based on available data, the classification criteria are not met.

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- **LD/LC50 values that are relevant for classification:**

26447-40-5 Diphenylmethane diisocyanate (isomer mixture)

Oral LD₅₀ >10,000 mg/kg (rat)
 Dermal LD₅₀ >9,400 mg/kg (rabbit)
 Inhalative LC₅₀/4h_(Staeube,Nebel) 1.5 mg/l (rat) (Calculation (ATE))

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

Oral LD₅₀ 2,020 mg/kg (rat)
 Dermal LD₅₀ 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)

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

Oral LD₅₀ >10,000 mg/kg (rat) (84/449/EWG, B.1)
 Dermal LD₅₀ >9,400 mg/kg (rabbit) (OECD 402)
 Inhalative LC₅₀/4h_(Staeube,Nebel) 1.5 mg/l (rat) (Calculation (ATE))

- **Primary irritant effect:**

- **on the skin:**

Causes skin irritation.

- **on the eye:**

Causes serious eye irritation.

- **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)**

diphenylmethane-4,4'-diisocyanate: 3

- **NTP (National Toxicology Program)**

None of the ingredients is listed.

12 Ecological information

- **12.1. Toxicity**

- **Aquatic toxicity:**

26447-40-5 Diphenylmethane diisocyanate (isomer mixture)

LC₅₀ >1,000 mg / l / 96h (fish)
 EC₅₀ >1,000 mg / l / 24h (water flea - daphnia)

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

EC₅₀ >100 mg / l / 48h (water flea - daphnia)

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

LC₅₀ >1,000 mg / l / 96h (fish)
 EC₅₀ >1,000 mg / l / 24h (water flea - daphnia)
 IC₅₀ >1,640 mg / l / 72h (algae)

- **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.

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- **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.

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 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**
- **DOT/TDG, ADR, ADN, IMDG, IATA** Void
- **14.2. UN proper shipping name**
- **DOT/TDG, ADR, ADN, IMDG, IATA** Void
- **14.3. Transport hazard class(es)**
- **14.3. DOT, ADR, ADN, IMDG, IATA**
- **Class** Void
- **14.4. Packing group**
- **DOT/TDG, ADR, 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 MARPOL73/78 and the IBC Code** Not applicable.

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 355 (Extremely hazardous substances):**
None of the ingredients is listed.
- **Section 313 (Specific toxic chemical listings):**
None of the ingredients is listed.
- **TSCA (Toxic Substances Control Act) - USA**
All components have the value ACTIVE.
- **DSL (Canadian Domestic Substance List) - Canada: (Substances not listed)**
All ingredients are listed.
- **National regulations:**
- **Other regulations, limitations and prohibitive regulations:** Restricted to professional users.

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- **VOC - Volatile Organic Compounds**
- **VOC - Volatile organic compounds: content [mass-%] <1.50 %**
- **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.

- **USA: Relevant labels and warnings**

HAZCOM LABEL: CAUTION! SUSPECT CANCER HAZARD
MAY CAUSE SENSITIZATION BY INHALATION AND SKIN CONTACT.
HARMFUL BY INHALATION.

- **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 the respiratory system through prolonged or repeated exposure. Route of exposure: Inhalation.

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

- **Abbreviations and acronyms:**

ICAO: International Civil Aviation Organisation
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)
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