



Safety Data Sheet according to HPR, Schedule 1

Printing date 02/08/2023

Version-No. 1

Reviewed on 02/08/2023

1 Identification

1.1. Product identifierTrade name / Article No: **KLEIBERIT 707.6.40**

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 / Allemagne

Information department:

KLEIBERIT Adhesives Canada, Inc.

45 Sheppard Avenue East, Suite 900
Toronto, Ontario M2N 5W9
Canada

Phone 1-416-256-5842

FAX 1-416-781-4901

Toll free 1888-443-666

1.4. Emergency telephone number:

email: hse@kleiberit.com

1-800-424-9300 (CHEMTREC)

1-800-451-1403 (SARA-HOTLINE)

2 Hazard 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.

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

Carc. 2 H351 Suspected of causing cancer.

STOT RE 2 H373 May cause damage to organs through prolonged or repeated exposure.

2.2. Label elements**Hazard pictograms**

GHS08

Signal word Danger**Hazard-determining components of labeling:**

Diphenylmethane diisocyanate (isomer mixture)

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.

H373 May cause damage to organs through prolonged or repeated exposure.

Precautionary statements

P261 Avoid breathing vapours.

P280 Wear protective gloves.

P314 Get medical advice/attention if you feel unwell.

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



Health = 1
Fire = 0
Reactivity = 0

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



Health = *1
Fire = 0
Reactivity = 0

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

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 synthetic plastics, based on polyurethane

- **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	<2.5% w/w

- **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**

- **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.

- **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.

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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:** None
- **Flash point :**
See Pos. 9
Not applicable
- **Flammable Limits (% by volume)** Not applicable
- **Autoignition Temperature :** See Pos. 9
- **Explosion Data - Sensitive to Impact:** Not applicable
- **Explosion Data - Sensitive to Static Discharge:** Not applicable
- **5.2. Special hazards arising from the substance or mixture**
Nitrogen oxides (NO_x)
Isocyanate
Traces:
Hydrogen cyanide (HCN)
- **5.3. Advice for firefighters**
- **Protective equipment:** 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.
Use respiratory protective device against the effects of fumes/dust/aerosol.
See Pos. 8 - Breathing equipment.
- **6.2. Environmental precautions:** No special measures required.
- **6.3. Methods and material for containment and cleaning up:**
Dispose contaminated material as waste according to item 13.
- **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.

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
Wear protective gloves/protective clothing/eye protection/face protection.
Prevent formation of dust.
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:** Keep container tightly closed.

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- **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.

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:**
- **Additional information:**
- **Engineering Controls (such as ventilation, enclosed process)**
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. Therefore measures for the elimination of the vapours have to be taken, e.g. by means of an appropriate ventilation/ exhaust device.
- **8.2. Exposure controls**
limit the exposure to:
8 hours
- **Personal protective equipment:**
- **General protective and hygienic measures:**
The usual precautionary measures for handling chemicals should be followed.
- **Breathing equipment:**
Wear NIOSH-approved, air-purifying respirator.
If technical exhaust or ventilation measures are not possible or insufficient, respiratory protection must be worn. Combination Filter OV (Organic Vapours) / P95 (Particles and Aerosols) [42 CFR part 84]
Filters OV/N95
- **Protection of hands:** Heat resistant gloves
- **Material of gloves:** Leather gloves
- **Eye protection:** Not required.
- **Body protection:** Protective work clothing

9 Physical and chemical properties

- **9.1. Information on basic physical and chemical properties**
- **General Information**
- **Appearance:**

Form:	Solid
Color:	According to product specification
- **Odor:** Light
- **Odor threshold:** Not determined.
- **pH-value:** Not applicable.
- **Change in condition**

Melting point/Melting range:	Undetermined.
Boiling point/Boiling range:	Undetermined.
- **Flash Point:** Not applicable.
- **Flammability (solid, gaseous):** Not determined.
- **Ignition Temperature:** >300 °C (>572 °F)
- **Decomposition Temperature:** Not determined.
- **Auto Igniting:** Product is not selfigniting.
- **Danger of Explosion:** Product does not present an explosion hazard.
- **Explosion Limits:**

Lower:	
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- **Upper:**
- **Vapor Pressure:** Not applicable.
- **Density at 20 °C (68 °F):** ca. 1.3 g/cm³ (~108.49 lbs/gal)
- **Relative Density** Not determined.
- **Vapour Density** Not applicable.
- **Evaporation Rate** Not applicable.
- **Solubility in / Miscibility with Water:** Insoluble.
- **Partition coefficient (n-octanol/water):** Not determined.
- **Viscosity:** At room temperature: not applicable
- **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:** Isocyanate

11 Toxicological information

- **11.1. Information on toxicological effects**
- **Acute toxicity:** Based on available data, the classification criteria are not met.
- **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) 0.49 mg/l (rat)

- **Primary irritant effect:**
- **on the skin:** Based on available data, the classification criteria are not met.
- **on the eye:** Based on available data, the classification criteria are not met.
- **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)**

benzoyl chloride: 2A
- **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)
- **12.2. Persistence and degradability** No further relevant information available.

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- **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.
- **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:**
Can be burned with household garbage after consulting with the waste disposal facility operator and the pertinent authorities and adhering to the necessary technical regulations.
Adhesive reacted completely:
Can be disposed of with household garbage in small quantities after curing.
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** Unnecessary
- **14.2. UN proper shipping name** Unnecessary
- **14.3. Transport hazard class(es)** Unnecessary
- **DOT**
- **Class** No dangerous good
Unnecessary
- **14.4. Packing group** Unnecessary
- **14.5. Environmental hazards:** Unnecessary
- **14.6. Special precautions for user** Unnecessary
- **14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code** Unnecessary

15 Regulatory information

- **15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**
See position no 2 - Hazards Identification
- **TSCA (Toxic Substances Control Act) - USA**
1317-65-3 calcium carbonate
25322-69-4 polypropylene glycol
26447-40-5 Diphenylmethane diisocyanate (isomer mixture)
6683-19-8 Pentaerythritol tetrakis(3-(3,5-di-tert-butyl-4-hydroxyphenyl)propionate)
- **DSL (Canadian Domestic Substance List) - Canada**
1317-65-3 calcium carbonate
25322-69-4 polypropylene glycol
26447-40-5 Diphenylmethane diisocyanate (isomer mixture)
- **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-%] 0 %**
- **US (40CFR part59): VOC content [g / L] solid, 0 g / L**
- **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! HARMFUL.

- **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.

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

- **Abbreviations and acronyms:**

ICAO: International Civil Aviation Organisation

DOT: US Department of Transportation

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

CDN