

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 04.01.2017

Revision: 04.01.2017

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

- . 1.1 Product identifier
- . Trade name: **KEMAPUR SL 5000 B**
- . 1.2 Relevant identified uses of the substance or mixture and uses advised against
No further relevant information available.
- . Application of the substance / the mixture Construction chemicals
- . 1.3 Details of the supplier of the safety data sheet
- . Manufacturer/Supplier:
KEMA d.o.o.
Puconci 393
9201 Puconci
Slovenija
- . Further information obtainable from: R&D DEPARTMENT
- . 1.4 Emergency telephone number: +386 (0)2 545 95 00

SECTION 2: Hazards identification

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



GHS08 health hazard

Resp. Sens. 1 H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Carc. 2 H351 Suspected of causing cancer.

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



GHS07

Acute Tox. 4 H332 Harmful if inhaled.

Skin Irrit. 2 H315 Causes skin irritation.

Eye Irrit. 2 H319 Causes serious eye irritation.

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

STOT SE 3 H335 May cause respiratory irritation.

- . Storage: Store in a well closed container, protected from light, moisture and air at room temperature.

- . 2.2 Label elements
- . Labelling according to Regulation (EC) No 1272/2008
The product is classified and labelled according to the CLP regulation.
- . Hazard pictograms



GHS07



GHS08

- . Signal word Danger
- . Hazard-determining components of labelling:
4,4'-methylenediphenyl diisocyanate

(Contd. on page 2)

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 04.01.2017

Revision: 04.01.2017

Trade name: KEMAPUR SL 5000 B

(Contd. of page 1)

diphenylmethanediisocyanate, isomeres and homologues

· Hazard statements

H332 Harmful if inhaled.

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.

H335 May cause respiratory irritation.

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

· Precautionary statements

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P342+P311 If experiencing respiratory symptoms: Call a POISON CENTER/doctor.

P405 Store locked up.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

· Additional information:

EUH204 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 Chemical characterisation: Mixtures****· Description:** Mixture of substances listed below with nonhazardous additions.**· Dangerous components:**

CAS: 101-68-8 EINECS: 202-966-0 Index number: 615-005-00-9	4,4'-methylenediphenyl diisocyanate ⚠ 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	25-50%
CAS: 9016-87-9	diphenylmethanediisocyanate, isomeres and homologues ⚠ 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	25-50%

· 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.

(Contd. on page 3)

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 04.01.2017

Revision: 04.01.2017

Trade name: KEMAPUR SL 5000 B

(Contd. of page 2)

- In case of unconsciousness place patient stably in side position for transportation.*
- . **After skin contact:** Immediately wash with water and soap and rinse thoroughly.
 - . **After eye contact:**
Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
 - . **After swallowing:** If symptoms persist consult 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: 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:** Mouth respiratory protective device.

SECTION 6: Accidental release measures

- . **6.1 Personal precautions, protective equipment and emergency procedures** Not required.
- . **6.2 Environmental precautions:** Dilute with plenty of water.
- . **6.3 Methods and material for containment and cleaning up:**
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Dispose contaminated material as waste according to item 13.
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**
Avoid contact with skin & eyes.
Ensure good ventilation/exhaustion at the workplace.
- . **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:** No special requirements.
- . **Information about storage in one common storage facility:** Not required.
- . **Further information about storage conditions:** Keep container tightly sealed.
- . **7.3 Specific end use(s)** No further relevant information available.

SECTION 8: Exposure controls/personal protection

- . **Additional information about design of technical facilities:** No further data; see item 7.

(Contd. on page 4)

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 04.01.2017

Revision: 04.01.2017

Trade name: KEMAPUR SL 5000 B

(Contd. of page 3)

- . **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.
- . **Additional information:** *The lists valid during the making were used as basis.*
- . **8.2 Exposure controls**
- . **Personal protective equipment:**
- . **General protective and hygienic measures:**
Keep away from foodstuffs, beverages and feed.
Immediately remove all soiled and contaminated clothing
Wash hands before breaks and at the end of work.
Store protective clothing separately.
Avoid contact with the eyes and skin.
- . **Respiratory protection:**
In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.
- . **Protection of hands:**



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

- . **Material of gloves**
The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.
- . **Penetration time of glove material**
The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
- . **Eye protection:**



Tightly sealed goggles

SECTION 9: Physical and chemical properties

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

Form:	Liquid
Colour:	According to product specification
- . **Odour:** Characteristic
- . **Odour threshold:** Not determined.

(Contd. on page 5)

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

Printing date 04.01.2017

Revision: 04.01.2017

Trade name: KEMAPUR SL 5000 B

(Contd. of page 4)

. pH-value:	<i>Not determined.</i>
. Change in condition	
Melting point/freezing point:	<i>Undetermined.</i>
Initial boiling point and boiling range:	<i>Undetermined.</i>
. Flash point:	<i>>60 °C</i>
. Flammability (solid, gas):	<i>Not applicable.</i>
. Ignition temperature:	<i>400 °C</i>
. Decomposition temperature:	<i>Not determined.</i>
. Auto-ignition temperature:	<i>Product is not selfigniting.</i>
. Explosive properties:	<i>Product does not present an explosion hazard.</i>
. Explosion limits:	
Lower:	<i>0,4 Vol %</i>
Upper:	<i>0,0 Vol %</i>
. Vapour pressure:	<i>Not determined.</i>
. Density:	<i>Not determined.</i>
. Relative density	<i>1,23 kg/l</i>
. Vapour density	<i>Not determined.</i>
. Evaporation rate	<i>Not determined.</i>
. Solubility in / Miscibility with water:	<i>Fully miscible.</i>
. Partition coefficient: n-octanol/water:	<i>Not determined.</i>
. Viscosity:	
Dynamic:	<i>Not determined.</i>
Kinematic:	<i>Not determined.</i>
. Solvent content:	
Organic solvents:	<i>0,0 %</i>
VOC (EC)	<i>0,00 %</i>
. 9.2 Other information	<i>No further relevant information available.</i>

SECTION 10: Stability and reactivity

- . **10.1 Reactivity** *No further relevant information available.*
- . **10.2 Chemical stability**
- . **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.*

EU

(Contd. on page 6)

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 04.01.2017

Revision: 04.01.2017

Trade name: KEMAPUR SL 5000 B

(Contd. of page 5)

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Harmful if inhaled.

LD/LC50 values relevant for classification:

ATE (Acute Toxicity Estimates)

Inhalative	LC50/4 h	11 mg/l
------------	----------	---------

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

Oral	LD50	2200 mg/kg (Mouse)
------	------	--------------------

Inhalative	LC50/4 h	11 mg/l (ATE)
------------	----------	---------------

9016-87-9 diphenylmethanediisocyanate, isomeres and homologues

Inhalative	LC50/4 h	11 mg/l (ATE)
------------	----------	---------------

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 organs 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:

No further relevant information available.

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.

Additional ecological information:

General notes:

Not known to be hazardous to water.

12.5 Results of PBT and vPvB assessment

PBT:

Not applicable.

vPvB:

Not applicable.

12.6 Other adverse effects

No further relevant information available.

EU

(Contd. on page 7)

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 04.01.2017

Revision: 04.01.2017

Trade name: KEMAPUR SL 5000 B

(Contd. of page 6)

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.
- . **Uncleaned packaging:**
- . **Recommendation:** Disposal must be made according to official regulations.
- . **Recommended cleansing agents:** Water, if necessary together with cleansing agents.

SECTION 14: Transport information

- | | |
|--|-----------------|
| . 14.1 UN-Number | |
| . ADR,RID,ADN, ADN, IMDG, IATA | Void |
| . 14.2 UN proper shipping name | |
| . ADN, IMDG, IATA | Void |
| . 14.3 Transport hazard class(es) | |
| . ADR,RID,ADN, IMDG, IATA | |
| . Class | Void |
| . Label | - |
| . ADN/R Class: | Void |
| . 14.4 Packing group | |
| . ADR,RID,ADN, IMDG, IATA | Void |
| . 14.5 Environmental hazards: | |
| | Not applicable. |
| . 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. |
| . UN "Model Regulation": | |
| | Void |

SECTION 15: Regulatory information

- . **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
- . **Directive 2012/18/EU**
- . **Named dangerous substances - ANNEX I** None of the ingredients is listed.
- . **REGULATION (EC) No 1907/2006 ANNEX XVII** Conditions of restriction: 3, 56a
- . **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**
- H315 Causes skin irritation.
- H317 May cause an allergic skin reaction.

(Contd. on page 8)

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

Printing date 04.01.2017

Revision: 04.01.2017

Trade name: KEMAPUR SL 5000 B

(Contd. of page 7)

*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: R&D DEPARTMENT

. Abbreviations and acronyms:

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

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)

VOC: Volatile Organic Compounds (USA, EU)

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