

# Safety data sheet

## according to 1907/2006/EC, Article 31

Printing date 07.06.2017

Revision: 07.06.2017

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

- **1.1 Product identifier**
- **Trade name:** KEMAPUR V 7200 FLEX 1K
- **Article number:** /
- **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**  
Coating  
Sealing  
Isocyanate resin
- **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**  
Flam. Liq. 3      H226 Flammable liquid and vapour.  
Skin Sens. 1      H317 May cause an allergic skin reaction.  
Aquatic Chronic 3      H412 Harmful to aquatic life with long lasting effects.

- **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**



GHS02   GHS07

- **Signal word** Warning
- **Hazard-determining components of labelling:**  
Aliphatisches Polyisocyanat  
1,6-hexanediyl-bis(2-(2-(1-ethylpentyl)-3-oxazolidinyl)ethyl)carbamate  
isophorone di-isocyanate
- **Hazard statements**  
H226 Flammable liquid and vapour.  
H317 May cause an allergic skin reaction.  
H412 Harmful to aquatic life with long lasting effects.
- **Precautionary statements**  
P210      Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P260      Do not breathe dust/fume/gas/mist/vapours/spray.  
P280      Wear protective gloves/protective clothing/eye protection/face protection.

(Contd. on page 2)

# Safety data sheet

## according to 1907/2006/EC, Article 31

Printing date 07.06.2017

Revision: 07.06.2017

**Trade name: KEMAPUR V 7200 FLEX 1K**

(Contd. of page 1)

- P302+P352 IF ON SKIN: Wash with plenty of water.
- **Additional information:**  
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

- **3.1 Chemical characterisation: Substances**
- **Identification number(s)** 3 (VCI)
- **3.2 Chemical characterisation: Mixtures**
- **Description:** Mixture of substances listed below with nonhazardous additions.

• **Dangerous components:**

CAS: 426822-87-9	Aliphatisches Polyisocyanat ⚠ Skin Sens. 1, H317	50-100%
CAS: 140921-24-0 ELINCS: 411-700-4	1,6-hexanediyl-bis(2-(2-(1-ethylpentyl)-3-oxazolidinyl)ethyl)carbamate ⚠ Skin Sens. 1, H317	10-<25%
CAS: 108-65-6 EINECS: 203-603-9 Reg.nr.: 01-2119475791-29	2-methoxy-1-methylethyl acetate ⚠ Flam. Liq. 3, H226	10-<25%
CAS: 1330-20-7 EINECS: 215-535-7 Reg.nr.: 01-2119488216-32	xylene ⚠ Flam. Liq. 3, H226; ⚠ Acute Tox. 4, H312; Acute Tox. 4, H332; Skin Irrit. 2, H315	3-<10%
CAS: 64742-95-6 EINECS: 265-199-0 Reg.nr.: 01-2119455851-35-xxxx	Solvent naphtha (petroleum), light arom. ⚠ Flam. Liq. 3, H226; ⚠ Asp. Tox. 1, H304; ⚠ Aquatic Chronic 2, H411; ⚠ Acute Tox. 4, H332; STOT SE 3, H335-H336	3-<10%
CAS: 4098-71-9 EINECS: 223-861-6 Reg.nr.: 01-2119490408-31-XXXX	isophorone di-isocyanate ⚠ Acute Tox. 3, H331; ⚠ Resp. Sens. 1, H334; ⚠ Aquatic Chronic 2, H411; ⚠ Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317; STOT SE 3, H335	0.3-<0.5%

- **Additional information:** For the wording of the listed risk 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:**  
Seek medical treatment in case of complaints.  
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:**  
If skin irritation continues, consult a doctor.  
Immediately wash with water and soap and rinse thoroughly.
- **After eye contact:** Seek immediate medical advice.
- **After swallowing:** Seek immediate medical advice.
- **4.2 Most important symptoms and effects, both acute and delayed**  
No further relevant information available.

(Contd. on page 3)

# Safety data sheet

## according to 1907/2006/EC, Article 31

Printing date 07.06.2017

Revision: 07.06.2017

**Trade name: KEMAPUR V 7200 FLEX 1K**

(Contd. of page 2)

- **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:** CO<sub>2</sub>, sand, extinguishing powder. Do not use water.
- **For safety reasons unsuitable extinguishing agents:** Water with full jet
- **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.  
Mouth respiratory protective device.
- **Additional information** Cool endangered receptacles with water spray.

### SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures**  
Ensure adequate ventilation  
Wear protective equipment. Keep unprotected persons away.
- **6.2 Environmental precautions:**  
Inform respective authorities in case of seepage into water course or sewage system.  
Do not allow to enter sewers/ surface or ground 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.  
Do not flush with water or aqueous cleansing agents
- **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**  
Ensure good ventilation/exhaustion at the workplace.  
Prevent formation of aerosols.  
Store in cool, dry place in tightly closed receptacles.  
Keep away from heat and direct sunlight.
- **Information about fire - and explosion protection:**  
Keep ignition sources away - Do not smoke.  
Protect against electrostatic charges.
- **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 07.06.2017

Revision: 07.06.2017

**Trade name: KEMAPUR V 7200 FLEX 1K**

(Contd. of page 3)

**8.1 Control parameters****Ingredients with limit values that require monitoring at the workplace:****108-65-6 2-methoxy-1-methylethyl acetate**

WEL Short-term value: 548 mg/m<sup>3</sup>, 100 ppm  
 Long-term value: 274 mg/m<sup>3</sup>, 50 ppm  
 Sk

**1330-20-7 xylene**

WEL Short-term value: 441 mg/m<sup>3</sup>, 100 ppm  
 Long-term value: 220 mg/m<sup>3</sup>, 50 ppm  
 Sk; BMGV

**4098-71-9 isophorone di-isocyanate**

WEL Short-term value: 0.07 mg/m<sup>3</sup>  
 Long-term value: 0.02 mg/m<sup>3</sup>  
 Sen; as -NCO

**Ingredients with biological limit values:****1330-20-7 xylene**

BMGV 650 mmol/mol creatinine  
 Medium: urine  
 Sampling time: post shift  
 Parameter: methyl hippuric acid

**Additional information:** The lists valid during the making were used as basis.

**8.2 Exposure controls****Personal protective equipment:****General protective and hygienic measures:**

Do not eat or drink while working.  
 Keep away from foodstuffs, beverages and feed.  
 Immediately remove all soiled and contaminated clothing  
 Wash hands before breaks and at the end of work.

**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:**

Use gloves of stable material (e.g. Nitrile) - if necessary tricoted to improve the wearability.



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

**Material of gloves**

Nitrile rubber, NBR

Butyl rubber, BR

Recommended thickness of the material:  $\geq 0.5$  mm

Fluorocarbon rubber (Viton)

**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.

(Contd. on page 5)

GB

# Safety data sheet

## according to 1907/2006/EC, Article 31

Printing date 07.06.2017

Revision: 07.06.2017

**Trade name: KEMAPUR V 7200 FLEX 1K**

(Contd. of page 4)

· **Eye protection:**

Tightly sealed goggles

· **Body protection:** Protective work clothing

### SECTION 9: Physical and chemical properties

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

<b>Form:</b>	Fluid
<b>Colour:</b>	Colourless
<b>Odour:</b>	Like aromatic solvents

· **Change in condition****Melting point/Melting range:** Undetermined.**Boiling point/Boiling range:** 137 °C· **Flash point:** > 37 °C· **Ignition temperature:** 315 °C· **Self-igniting:** Product is not selfigniting.· **Danger of explosion:** Product is not explosive. However, formation of explosive air/vapour mixtures are possible.· **Explosion limits:**

<b>Lower:</b>	1.2 Vol %
<b>Upper:</b>	10.6 Vol %

· **Vapour pressure at 20 °C:** 3.4 hPa· **Density at 20 °C:** 1.04 g/cm<sup>3</sup> (DIN EN ISO 2811-2)· **Solubility in / Miscibility with water:**

Not miscible or difficult to mix.

· **Viscosity:****Dynamic at 20 °C:** 1100 mPas (DIN EN ISO 3219)**Kinematic:** Not determined.· **9.2 Other information** No further relevant information available.

### 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**

Reacts with acids, alkalis and oxidising agents.

Reacts with amines.

Exothermic reaction.

Reacts with alcohols.

· **10.4 Conditions to avoid** No further relevant information available.· **10.5 Incompatible materials:** No further relevant information available.

(Contd. on page 6)

# Safety data sheet

## according to 1907/2006/EC, Article 31

Printing date 07.06.2017

Revision: 07.06.2017

**Trade name: KEMAPUR V 7200 FLEX 1K**

(Contd. of page 5)

- **10.6 Hazardous decomposition products:** No dangerous decomposition products known.

### SECTION 11: Toxicological information

- **11.1 Information on toxicological effects**
- **Acute toxicity**

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

#### 140921-24-0 1,6-hexanediyl-bis(2-(2-(1-ethylpentyl)-3-oxazolidinyl)ethyl)carbamate

Oral LD50 &gt; 2000 mg/kg (rat)

Dermal LD50 &gt; 2000 mg/kg (rat)

#### 108-65-6 2-methoxy-1-methylethyl acetate

Oral LD50 8532 mg/kg (rat)

Dermal LD50 &gt; 5000 mg/kg (rat)

Inhalative LC50/4 h 35.7 mg/l (rat)

#### 1330-20-7 xylene

Oral LD50 4300 mg/kg (rat)

Dermal LD50 3200 mg/kg (rabbit)

Inhalative LC50/4 h 28 mg/l (rat)

#### 64742-95-6 Solvent naphtha (petroleum), light arom.

Oral LD50 &gt; 6800 mg/kg (rat)

Dermal LD50 &gt; 3400 mg/kg (rab)

Inhalative LC50/4 h &gt; 10.2 mg/l (rat)

#### 4098-71-9 isophorone di-isocyanate

Inhalative LC50/4 h 3 mg/l (ATE)

- **Primary irritant effect:**
- **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**  
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** 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.

### SECTION 12: Ecological information

- **12.1 Toxicity**

- **Aquatic toxicity:**

#### 140921-24-0 1,6-hexanediyl-bis(2-(2-(1-ethylpentyl)-3-oxazolidinyl)ethyl)carbamate

EC50/48 h 193 mg/l (Daphnia (Wasserfloh))

EC50/72h 43 mg/l (Grünalge (Desmodesmus subspicatus))

LC50/96 h 316 mg/l (Brachydanio rerio (Zebrabärbling))

#### 108-65-6 2-methoxy-1-methylethyl acetate

EC0 &gt; 1000 mg/l (Selenastrum capricornutum) ((72h))

EC50/48 h &gt; 500 mg/l (Daphnia (Wasserfloh))

LC0/96h 23.8 mg/l (rat) ((6h))

(Contd. on page 7)

# Safety data sheet

## according to 1907/2006/EC, Article 31

Printing date 07.06.2017

Revision: 07.06.2017

**Trade name: KEMAPUR V 7200 FLEX 1K**

(Contd. of page 6)

LC50/96 h &gt; 100-180 mg/l (Oncorhynchus mykiss (Regenbogenforelle))

**1330-20-7 xylene**

EC50/24h 165 mg/l (Daphnia (Wasserfloh))


LC50/96 h 26.7 mg/l (Pimephales promelas (Goldelritze))

- **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.
- **Ecotoxicological effects:**
- **Remark:** Harmful to fish
- **Additional ecological information:**
- **General notes:**  
Harmful to aquatic organisms  
Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water  
Do not allow product to reach ground water, water course or sewage system.  
Danger to drinking water if even small quantities leak into the ground.
- **12.5 Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **12.6 Other adverse effects** No further relevant information available.

### 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 09 waste adhesives and sealants containing organic solvents or other dangerous substances
- **Uncleaned packaging:**
- **Recommendation:** Disposal must be made according to official regulations.

### SECTION 14: Transport information

- **14.1 UN-Number**
- **ADR, ADN, IMDG** Void
- **IATA** UN1866
- **14.2 UN proper shipping name**
- **ADR, ADN, IMDG** Void
- **IATA** RESIN SOLUTION
- **14.3 Transport hazard class(es)**
- **ADR, ADN, IMDG**
- **Class** Void
- **IATA**
- 
- **Class** 3 Flammable liquids.
- **Label** 3

(Contd. on page 8)

# Safety data sheet

## according to 1907/2006/EC, Article 31

Printing date 07.06.2017

Revision: 07.06.2017

**Trade name: KEMAPUR V 7200 FLEX 1K**

(Contd. of page 7)

· <b>14.4 Packing group</b>	
· <b>ADR, IMDG</b>	Void
· <b>IATA</b>	III
· <b>14.5 Environmental hazards:</b>	
· <b>Marine pollutant:</b>	No
· <b>14.6 Special precautions for user</b>	Not applicable.
· <b>14.7 Transport in bulk according to Annex II of Marpol and the IBC Code</b>	Not applicable.
· <b>UN "Model Regulation":</b>	Void

### SECTION 15: Regulatory information

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **Directive 2012/18/EU**
- **Qualifying quantity (tonnes) for the application of lower-tier requirements** 5.000 t
- **Qualifying quantity (tonnes) for the application of upper-tier requirements** 50.000 t
- **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**  
 H226 Flammable liquid and vapour.  
 H304 May be fatal if swallowed and enters airways.  
 H312 Harmful in contact with skin.  
 H315 Causes skin irritation.  
 H317 May cause an allergic skin reaction.  
 H319 Causes serious eye irritation.  
 H331 Toxic if inhaled.  
 H332 Harmful if inhaled.  
 H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.  
 H335 May cause respiratory irritation.  
 H336 May cause drowsiness or dizziness.  
 H411 Toxic to aquatic life with long lasting effects.
- **Department issuing MSDS:** R&D DEPARTMENT
- **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  
 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)  
 LC50: Lethal concentration, 50 percent  
 LD50: Lethal dose, 50 percent  
 PBT: Persistent, Bioaccumulative and Toxic  
 vPvB: very Persistent and very Bioaccumulative  
 Flam. Liq. 3: Flammable liquids, Hazard Category 3  
 Acute Tox. 4: Acute toxicity, Hazard Category 4

(Contd. on page 9)

GB

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

Printing date 07.06.2017

Revision: 07.06.2017

**Trade name: KEMAPUR V 7200 FLEX 1K**

(Contd. of page 8)

Acute Tox. 3: Acute toxicity, Hazard Category 3  
Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2  
Eye Irrit. 2: Serious eye damage/eye irritation, Hazard Category 2  
Resp. Sens. 1: Sensitisation - Respirat., Hazard Category 1  
Skin Sens. 1: Sensitisation - Skin, Hazard Category 1  
STOT SE 3: Specific target organ toxicity - Single exposure, Hazard Category 3  
Asp. Tox. 1: Aspiration hazard, Hazard Category 1  
Aquatic Chronic 2: Hazardous to the aquatic environment - Chronic Hazard, Category 2  
Aquatic Chronic 3: Hazardous to the aquatic environment - Chronic Hazard, Category 3  
· **\* Data compared to the previous version altered.**

GB