

# Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 12.06.2015

Version number 1

Revision: 12.06.2015

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

- 1.1 Product identifier **COELAN 2-K Super sealant transp. silk matt (A)**
- Trade name: **COELAN 2-K Super sealant transp. silk matt (A)**
- 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  
Sealing
- 1.3 Details of the supplier of the safety data sheet
- Manufacturer/Supplier: KEMPER SYSTEM GmbH & Co. KG  
Holländische Strasse 32-36  
34246 Vellmar  
Deutschland / Germany  
Telefon: +49 (0)561 / 8295-0  
Telefax: +49 (0)561 / 8295-5110  
E-Mail: MSDS@KEMPER-SYSTEM.COM
- Further information obtainable from: Research and Development
- 1.4 Emergency telephone number: Giftinformationszentrum der Länder Rheinland-Pfalz und Hessen  
Langenbeckstraße 1; Gebäude 601; 55131 Mainz  
Tel. Nr.: +49 (0)6131 / 19 24 0  
Universitätsmedizin der Johannes Gutenberg-Universität Mainz

## SECTION 2: Hazards identification

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



GHS02 flame

Flam. Liq. 3 H226 Flammable liquid and vapour.

Aquatic Chronic 3 H412 Harmful to aquatic life with long lasting effects.

- Classification according to Directive 67/548/EEC or Directive 1999/45/EC

R10-52/53: Flammable. Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

- Information concerning particular hazards for human and environment:

The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.

- Classification system:

The classification is according to the latest editions of the EU-lists, and extended by company and literature data.

- 2.2 Label elements

- Labelling according to Regulation (EC) No 1272/2008

- Hazard pictograms

The product is classified and labelled according to the CLP regulation.



GHS02

- Signal word

Warning

- Hazard statements

H226 Flammable liquid and vapour.

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.

P241 Use explosion-proof electrical/ventilating/lighting/equipment.

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

P240 Ground/bond container and receiving equipment.

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

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

- Additional information:

EUH208 Contains Bis(1,2,2,6,6-pentamethyl-4-piperidyl)sebacat, Methyl-1,2,2,6,6-pentamethyl-4-piperidylsebacat, benzotriazol derivate. 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.

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- Dangerous components:		
CAS: 108-65-6 EINECS: 203-603-9	2-methoxy-1-methylethyl acetate R10 ⚠ Flam. Liq. 3, H226	25-50%
CAS: 123-86-4 EINECS: 204-658-1	n-butyl acetate R10-66-67 ⚠ Flam. Liq. 3, H226; ⚠ STOT SE 3, H336	2.5-10%
CAS: 1330-20-7 EINECS: 215-535-7	xylene ⚠ Xn R20/21-48-68/20-65; ⚠ Xi R36/37/38 R10 ⚠ Flam. Liq. 3, H226; ⚠ STOT RE 2, H373; Asp. Tox. 1, H304; ⚠ Acute Tox. 4, H312; Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335	2.5-10%
CAS: 1330-20-7 EINECS: 215-535-7	xylene ⚠ Xn R20/21; ⚠ Xi R38 R10 ⚠ Flam. Liq. 3, H226; ⚠ Asp. Tox. 1, H304; ⚠ Acute Tox. 4, H312; Acute Tox. 4, H332; Skin Irrit. 2, H315	0.5-2.5%
ELINCS: 400-830-7	benzotriazol derivate ⚠ Xi R43; ⚠ N R51/53 ⚠ Aquatic Chronic 2, H411; ⚠ Skin Sens. 1, H317	< 0.5%
CAS: 41556-26-7 EINECS: 255-437-1	Bis(1,2,2,6,6-pentamethyl-4-piperidyl)sebacat ⚠ Xi R43; ⚠ N R50/53 ⚠ Aquatic Acute 1, H400; Aquatic Chronic 1, H410; ⚠ Skin Sens. 1, H317	< 0.5%
CAS: 82919-37-7 EINECS: 280-060-4	Methyl-1,2,2,6,6-pentamethyl-4-piperidylsebacat ⚠ Xi R43; ⚠ N R50/53 ⚠ Aquatic Acute 1, H400; Aquatic Chronic 1, H410; ⚠ Skin Sens. 1, H317	< 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

## - 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:

Immediately wash with water and soap and rinse thoroughly.

## - After eye contact:

Rinse opened eye for several minutes under running water.

## - 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, sand, extinguishing powder. Do not use water.

Alcohol resistant foam

ABC powder

## - 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:

Do not inhale explosion gases or combustion gases.

## SECTION 6: Accidental release measures

## - 6.1 Personal precautions, protective equipment and emergency procedures

Wear protective equipment. Keep unprotected persons away.

Keep away from ignition sources.

## - 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.

Prevent from spreading (e.g. by damming-in or oil barriers).

## - 6.3 Methods and material for containment and cleaning up:

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

Do not flush with water or aqueous cleansing agents

See Section 7 for information on safe handling.

## - 6.4 Reference to other sections

See Section 8 for information on personal protection equipment.

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See Section 13 for disposal information.

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## SECTION 7: Handling and storage

- **7.1 Precautions for safe handling**                      Store in cool, dry place in tightly closed receptacles.  
Use only in well ventilated areas.
- **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:**                      Store away from foodstuffs.
- **Further information about storage conditions:**                      Protect from frost.  
Keep container tightly sealed.
- **Storage class:**                      3
- **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.
- **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	

**123-86-4 n-butyl acetate**

WEL	Short-term value: 966 mg/m <sup>3</sup> , 200 ppm
	Long-term value: 724 mg/m <sup>3</sup> , 150 ppm

**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	

**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	

**- DNELs**

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

Dermal	Long term - systemic effects	153.5 mg/kg (worker)
Inhalative	Long term - systemic effects	275 mg/m <sup>3</sup> (worker)

**1330-20-7 xylene**

Dermal	Long term - systemic effects	180 mg/kg (worker)
Inhalative	Acute - local effects	289 mg/m <sup>3</sup> (worker)
	Acute - systemic effects	289 mg/m <sup>3</sup> (worker)
	Long term - systemic effects	77 mg/m <sup>3</sup> (worker)

**1330-20-7 xylene**

Dermal	Long term - systemic effects	180 mg/kg (worker)
Inhalative	Acute - local effects	289 mg/m <sup>3</sup> (worker)
	Acute - systemic effects	289 mg/m <sup>3</sup> (worker)
	Long term - systemic effects	77 mg/m <sup>3</sup> (worker)

**- Ingredients with biological limit values:**

**1330-20-7 xylene**

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

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**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:** Keep away from foodstuffs, beverages and feed.  
Immediately remove all soiled and contaminated clothing  
Wash hands before breaks and at the end of work.  
Avoid contact with the eyes and skin.
- **Respiratory protection:** Use suitable respiratory protective device in case of insufficient ventilation.  
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

Only use chemical-protective gloves with CE-labelling of category III.  
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.  
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.  
Recommended thickness of the material:  $\geq 0.7$  mm  
Synthetic rubber gloves
- **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.  
The determined penetration times according to EN 374 part III are not performed under practical conditions. Therefore a maximum wearing time, which corresponds to 50% of the penetration time, is recommended.  
Value for the permeation: Level  $\leq 3$
- **Eye protection:**



Tightly sealed goggles
- **Body protection:**

Protective work clothing  
Impervious protective clothing

## SECTION 9: Physical and chemical properties

- **9.1 Information on basic physical and chemical properties**
- **General Information**
- **Appearance:**
  - Form: Fluid
  - Colour: According to product specification
- **Odour:** Characteristic
- **Odour threshold:** Not determined.
- **pH-value:** Not determined.
- **Change in condition**
  - Melting point/Melting range: Undetermined.
  - Boiling point/Boiling range: Undetermined.
- **Flash point:** 34 °C
- **Flammability (solid, gaseous):** Not applicable.
- **Ignition temperature:**
- **Decomposition temperature:** Not determined.
- **Self-igniting:** Product is not selfigniting.

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- <b>Danger of explosion:</b>	Product is not explosive. However, formation of explosive air/vapour mixtures are possible.
- <b>Explosion limits:</b>	
<b>Lower:</b>	Not determined.
<b>Upper:</b>	Not determined.
- <b>Density at 20 °C:</b>	1.07 g/cm <sup>3</sup>
- <b>Relative density</b>	Not determined.
- <b>Vapour density</b>	Not determined.
- <b>Evaporation rate</b>	Not determined.
- <b>Solubility in / Miscibility with water:</b>	Not miscible or difficult to mix.
- <b>Partition coefficient (n-octanol/water):</b>	Not determined.
- <b>Viscosity:</b>	
<b>Dynamic:</b>	Not determined.
<b>Kinematic at 23 °C:</b>	173 s (ISO 6 mm DIN EN ISO 2431)
- <b>Solvent content:</b>	
<b>VOC (EC)</b>	39.60 %
- <b>9.2 Other information</b>	No further relevant information available.

## SECTION 10: Stability and reactivity

- **10.1 Reactivity**
- **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.

## SECTION 11: Toxicological information

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

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

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

Oral	LD50	8532 mg/kg (rat)
Dermal	LD50	>5000 mg/kg (rat)
Inhalative	LC50/4 h	35.7 mg/l (rat)

#### 123-86-4 n-butyl acetate

Oral	LD50	8800 mg/kg (rat)
Dermal	LD50	>5000 mg/kg (rabbit)
Inhalative	LC50/4 h	>21.0 mg/l (rat)

#### 1330-20-7 xylene

Oral	LD50	4300 mg/kg (rat)
Dermal	LD50	>2000 mg/kg (rabbit)
Inhalative	LC50/4 h	6350 mg/l (rat)

#### 1330-20-7 xylene

Oral	LD50	4300 mg/kg (rat)
Dermal	LD50	2000 mg/kg (rabbit)
Inhalative	LC50/4 h	11 mg/l (ATE)

#### benzotriazol derivate

Oral	LD50	>5000 mg/kg (rat) (unbekannt)
Dermal	LD50	>2000 mg/kg (rat) (unbekannt)
Inhalative	LC50/4 h	>5.8 mg/l (rat) (unbekannt)

#### 41556-26-7 Bis(1,2,2,6,6-pentamethyl-4-piperidyl)sebacat

Oral	LD50	>2300 mg/kg (rat)
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- **Primary irritant effect:**
- **Skin corrosion/irritation** No irritant effect.
- **Serious eye damage/irritation** No irritating effect.

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- **Respiratory or skin sensitisation**                      No sensitising effects known.

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## SECTION 12: Ecological information

**- 12.1 Toxicity**

**- Aquatic toxicity:**

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

LC50/96 h	>100 mg/l (oryzias latipes (Ricefish))
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**123-86-4 n-butyl acetate**

EC50 / 72h	>100 mg/l (ALGAE) 647.7 mg/l (DESMODESMUS SUBSPICATUS)
EC50/24h	72.8 mg/l (daphnia)
EC50/48 h	>10-100< mg/l (daphnia)
IC50/40h	356 mg/l (Tetrahymena)
LC50/96 h	>10-100< mg/l (PISCIS - Fisch)
NOEC - OECD 202 Teil	200 mg/l (DESMODESMUS SUBSPICATUS)

**1330-20-7 xylene**

IC50/72 h	2.2 mg/l (ALGAE)
LC50/96 h	26.7 mg/l (Pimephales promelas)

**1330-20-7 xylene**

EC50/24h	165 mg/l (daphnia)
IC50/72 h	2.2 mg/l (ALGAE)
LC50/96 h	26.7 mg/l (Pimephales promelas)

**41556-26-7 Bis(1,2,2,6,6-pentamethyl-4-piperidyl)sebacat**

EC50/24h	20 mg/l (daphnia)
LC50/96 h	0.97 mg/l (LEPOMUS MACROCHIRUS)

- **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:**    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.  
Harmful to aquatic organisms
- **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
- 08 04 10 waste adhesives and sealants other than those mentioned in 08 04 09
- **Uncleaned packaging:**
- **Recommendation:**    Disposal must be made according to official regulations.

## SECTION 14: Transport information

- **14.1 UN-Number**
- **ADR, IMDG, IATA**    UN1263
- **14.2 UN proper shipping name**
- **ADR**    1263 PAINT
- **IMDG, IATA**    PAINT

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

- ADR



- Class 3 (F1) Flammable liquids.  
- Label 3

- IMDG, IATA



- Class 3 Flammable liquids.  
- Label 3

**- 14.4 Packing group**

- ADR, IMDG, IATA III

**- 14.5 Environmental hazards:**

- Marine pollutant: No

**- 14.6 Special precautions for user**

- Danger code (Kemler): Warning: Flammable liquids.  
30  
- EMS Number: F-E,S-E

**- 14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code**

Not applicable.

**- Transport/Additional information:**

- ADR

- Limited quantities (LQ) 5L  
- Excepted quantities (EQ) Code: E1  
Maximum net quantity per inner packaging: 30 ml  
Maximum net quantity per outer packaging: 1000 ml

- Transport category 3

- Tunnel restriction code D/E

- IMDG

- Limited quantities (LQ) 5L  
- Excepted quantities (EQ) Code: E1  
Maximum net quantity per inner packaging: 30 ml  
Maximum net quantity per outer packaging: 1000 ml

- UN "Model Regulation": UN1263, PAINT, 3, III

## 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.

- 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.  
H332 Harmful if inhaled.  
H335 May cause respiratory irritation.  
H336 May cause drowsiness or dizziness.  
H373 May cause damage to organs through prolonged or repeated exposure.  
H400 Very toxic to aquatic life.  
H410 Very toxic to aquatic life with long lasting effects.

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H411 Toxic to aquatic life with long lasting effects.  
R10 Flammable.  
R20/21 Harmful by inhalation and in contact with skin.  
R36/37/38 Irritating to eyes, respiratory system and skin.  
R38 Irritating to skin.  
R43 May cause sensitisation by skin contact.  
R48 Danger of serious damage to health by prolonged exposure.  
R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.  
R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.  
R65 Harmful: may cause lung damage if swallowed.  
R66 Repeated exposure may cause skin dryness or cracking.  
R67 Vapours may cause drowsiness and dizziness.  
R68/20 Harmful: possible risk of irreversible effects through inhalation.

- Department issuing MSDS:
- Contact:
- Abbreviations and acronyms:

research & development  
research & development

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)

DNEL: Derived No-Effect Level (REACH)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

Flam. Liq. 3: Flammable liquids, Hazard Category 3

Acute Tox. 4: Acute toxicity, Hazard Category 4

Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2

Eye Irrit. 2: Serious eye damage/eye irritation, Hazard Category 2

Skin Sens. 1: Sensitisation - Skin, Hazard Category 1

STOT SE 3: Specific target organ toxicity - Single exposure, Hazard Category 3

STOT RE 2: Specific target organ toxicity - Repeated exposure, Hazard Category 2

Asp. Tox. 1: Aspiration hazard, Hazard Category 1

Aquatic Acute 1: Hazardous to the aquatic environment - Acute Hazard, Category 1

Aquatic Chronic 1: Hazardous to the aquatic environment - Chronic 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.