

Safety Data Sheet

according to 1907/2006/EC, Article 31




Printing date 19.05.2009

Revision: 19.05.2009

1 Identification of substance

- **Product details**
- **Trade name** **COELAN® Boot Coating transparent gloss**
- **Article number:** 6010-05000
- **Application of the substance / the preparation** Coating
- **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 / 8295-10
E-Mail: MSDS@KEMPER-SYSTEM.COM
- **Informing department:** Representative for Hazardous Substances
- **Emergency information:** Klinische Toxikologie der
JOHANNES GUTENBERG-UNIVERSITÄT MAINZ - KLINIKUM
Tel. Nr.: +49 (0)6131 / 23 24 66

2 Hazards identification

- **Hazard designation:**  Xi Irritant
- **Information pertaining to particular dangers for man 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.
R 10 Flammable.
R 43 May cause sensitisation by skin contact.
R 52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
Only for trade users / technical specialists
- **Classification system** The classification is in line with current EC lists. It is expanded, however, by information from technical literature and by information provided by supplier companies.
- **GHS label elements**
-  **Warning**
2.6/3 - Flammable liquid and vapour.
-  **Warning**
3.4/1 - May cause an allergic skin reaction.
- **Prevention:** 4.1/3 - Harmful to aquatic life with long lasting effects.
Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
Keep container tightly closed.
Ground/bond container and receiving equipment.
Use explosion-proof electrical/ventilating/lighting/equipment.
Use only non-sparking tools.
Take precautionary measures against static discharge.
Avoid breathing dust/fume/gas/mist/vapours/spray.

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- Response:

Contaminated work clothing should not be allowed out of the workplace.
 Avoid release to the environment.
 Wear protective gloves/protective clothing/eye protection/face protection.
 IF ON SKIN: Wash with plenty of soap and water.
 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing.
 Rinse skin with water/shower.
 Specific treatment (see on this label).
 If skin irritation or rash occurs: Get medical advice/attention.
 Wash contaminated clothing before reuse.
 In case of fire: Use for extinction: CO₂, powder or water spray.
 Store in a well-ventilated place. Keep cool.
 Dispose of contents/container in accordance with local/regional/national/
 international regulations.























- Storage:**- Disposal:**

3 Composition/information on ingredients

- Chemical characterization**- Description:**






















Mixture of the substances listed below with harmless additions.

- Dangerous components:

	Aliphatic Polyisocyanate  Xi; R 43 Warning:  3.4.S/1	25-50%
CAS: 108-65-6 EINECS: 203-603-9	2-methoxy-1-methylethyl acetate  Xi; R 10-36 Warning:  2.6/3;  3.3/2A	10-25%
CAS: 53880-05-0	Poly(3-isocyanatomethyl- 3,5,5-trimethylcyclohexylisocyanate)  Xi; R 43 Warning:  3.4.S/1	2.5-10%
CAS: 64742-95-6 EINECS: 265-199-0	Solvent naphtha (petroleum), light arom.  T; R 45-65 Danger:  3.6/1B, 3.10/1	2.5-10%
CAS: 95-63-6 EINECS: 202-436-9	1,2,4-trimethylbenzene  Xn,  Xi,  N; R 10-20-36/37/38-51/53 Warning:  2.6/3;  3.1.1/4, 3.2/2, 3.3/2A, 3.8/3  4.1.C/2	2.5-10%
CAS: 64742-82-1 EINECS: 265-185-4	Naphtha (petroleum), hydrodesulfurized heavy  T; R 45-65 Danger:  3.6/1B, 3.10/1	2.5-10%
CAS: 108-67-8 EINECS: 203-604-4	mesitylene  Xi,  N; R 10-37-51/53 Warning:  2.6/3;  3.8/3  4.1.C/2	0.5-2.5%

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CAS: 103-65-1 EINECS: 203-132-9	propylbenzene  Xn,  Xi,  N; R 10-37-51/53-65 Danger:  3.10/1 Warning:  2.6/3;  3.8/3  4.1.C/2	< 0.5%
CAS: 4098-71-9 EINECS: 223-861-6	3-isocyanatomethyl-3,5,5-trimethyl- cyclohexyl isocyanate  T,  Xi,  N; R 23-36/37/38-42/43-51/53 Danger:  3.1.I/3, 3.2/2, 3.3/2A, 3.4.S/1, 3.8/3;  3.4.R/1  4.1.C/2	< 0.5%
ELINCS: 400-830-7	Benzotriazol-Derivat  Xi,  N; R 43-51/53 Warning:  3.4.S/1  4.1.C/2	< 0.5%
CAS: 41556-26-7 EINECS: 255-437-1	Bis(1,2,2,6,6-pentamethyl- 4-piperidiny)sebacate  Xi,  N; R 43-50/53 Warning:  4.1.C/1;  3.4.S/1; 2.6/4	< 0.5%

- Additional information

For the wording of the listed risk phrases refer to section 16.

4 First aid measures

- After inhalation



Supply fresh air and consult doctor.

In case of unconsciousness bring patient into stable side position for transport.

In case of irregular breathing or respiratory arrest provide artificial respiration.

- After skin contact

Instantly wash with water and soap and rinse thoroughly.

- After eye contact

Rinse opened eye for several minutes under running water. Then consult doctor.

- After swallowing

Seek medical treatment.

5 Fire fighting measures

- Suitable extinguishing agents

CO₂, sand, extinguishing powder. Do not use water.

- For safety reasons unsuitable extinguishing agents

Water.

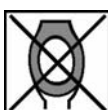
- Protective equipment:

No special measures required.

6 Accidental release measures

- Person-related safety precautions: Wear protective equipment. Keep unprotected persons away.

- Measures for environmental protection:



Do not allow product to reach sewage system or water bodies.


Inform respective authorities in case product reaches water or sewage system.

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- Measures for cleaning/collecting:** Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Ensure adequate ventilation.
Do not flush with water or aqueous cleansing agents

7 Handling and storage

- Handling**
- Information for safe handling:**
- Ensure good ventilation/exhaust at the workplace.
Prevent formation of aerosols.
- Information about protection against explosions and fires:**
-  Keep ignition sources away - Do not smoke.
Protect against electrostatic charges.
see part 15
- Storage** see part 15
- Requirements to be met by storerooms and containers:** No special requirements.
- Information about storage in one common storage facility:** Store away from foodstuffs.
- Further information about storage conditions:** Keep container tightly sealed.
- Recommended storage temperature:** +5°C / +30 °C

8 Exposure controls and personal protection

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

- Components with critical values that require monitoring at the workplace:

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

WEL (Great Britain)	Short-term value: 548 mg/m ³ , 100 ppm Long-term value: 274 mg/m ³ , 50 ppm Sk
IOELV (European Union)	Short-term value: 550 mg/m ³ , 100 ppm Long-term value: 275 mg/m ³ , 50 ppm Skin

95-63-6 1,2,4-trimethylbenzene

WEL (Great Britain)	Long-term value: 125 mg/m ³ , 25 ppm ILV
IOELV (European Union)	Long-term value: 100 mg/m ³ , 20 ppm

108-67-8 mesitylene

WEL (Great Britain)	Long-term value: 125 mg/m ³ , 25 ppm ILV
IOELV (European Union)	Long-term value: 100 mg/m ³ , 20 ppm

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4098-71-9 3-isocyanatomethyl-3,5,5-trimethyl-cyclohexyl isocyanate

WEL (Great Britain)	Short-term value: 0.07 mg/m ³ Long-term value: 0.02 mg/m ³ Sen; as -NCO
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- **Additional information:** The lists that were valid during the compilation were used as basis.

- **Personal protective equipment**
- **General protective and hygienic measures**

Instantly remove any soiled and impregnated garments.
Wash hands during breaks and at the end of the work session.
Do not eat, drink or smoke while working.
Use skin protection cream for preventive skin protection.

- **Breathing equipment:**



Use breathing protection with high concentrations.

Not necessary if room is well-ventilated.

Only during spraying without adequate removal by suction.

- **Protection of hands:**



Protective gloves. (IIR ($\geq 0,5$ mm))

- **Material of gloves**

Fluorocarbon rubber (Viton)

- **Penetration time of glove material**

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.

- **As protection from splashes gloves made of the following materials are suitable:**

Nitrile rubber, NBR

- **Eye protection:**



Tightly sealed safety glasses.

Gauze goggles

- **Body protection:**

Protective work clothing.

9 Physical and chemical properties:

- **General Information**

Form:	Fluid
Colour:	According to product specification
Smell:	Characteristic

- **Change in condition**

Melting point/Melting range:	Not determined
Boiling point/Boiling range:	> 155°C

- **Flash point:** 52°C

- **Ignition temperature:** 315°C

- **Self-inflammability:** Product is not selfigniting.

- **Danger of explosion:** Product is not explosive. However, formation of explosive air/steam mixtures is possible.

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- Critical values for explosion:	
Lower:	1.5 Vol %
Upper:	10.8 Vol %
- Steam pressure at 20°C:	3.4 hPa
- Density at 20°C	1.01 g/cm ³
- Solubility in / Miscibility with Water:	Not miscible or difficult to mix
- Viscosity:	
kinematic at 20°C:	81 s (ISO 6 mm)
- Organic solvents:	25.2 %

10 Stability and reactivity

- Thermal decomposition / conditions to be avoided:	No decomposition if used according to specifications.
- Dangerous products of composition:	No dangerous decomposition products known

11 Toxicological information

- Acute toxicity: -

- LD/LC50 values that are relevant for classification:

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

Oral	LD50	2000 mg/kg (rat)
Dermal	LD50	2000 mg/kg (rat)
Inhalative	LC50/4 h	5 mg/l (rat)

- Primary irritant effect: -

- on the skin: No irritant effect.

- on the eye: No irritant effect.

- Sensitization: Sensitization possible by skin contact.

- Additional toxicological information:

The product shows the following dangers according to the calculation method of the General EC Classification Guidelines for Preparations as issued in the latest version:

The product shows the following dangers according to the calculation method of the General EC Classification Guidelines for Preparations as issued in the latest version:

Irritant

- Sensitisation May cause sensitisation by skin contact.

12 Ecological information:

- Ecotoxicological effects:

- Remark: Harmful to fish

- General notes: Water hazard class 1 (Self-assessment): slightly hazardous for water.

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Harmful to aquatic organisms

13 Disposal considerations

- **Product:**
- **Recommendation** Can be deposited with household garbage after solidification following consultation with the operator of the waste disposal facility and the pertinent authorities and under adherence to the necessary technical regulations.
- **Waste disposal key number:** Use EWC

- 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 packagings:**
- **Recommendation:** Disposal must be carried out according to official regulations.

14 Transport information

- **Land transport ADR/RID and GGVS/GGVE (cross-border/domestic)**
- **Remarks:** No goods of grade 3 according to 2.2.3.1.5 ADR and 2.3.2.5 IMDG
ADR: Containers > 450 l = UN 1263 - 3 (F1) - PAINT RELATED MATERIAL, flammable
IMDG: Containers > 30 l = UN 1263 - 3 (F1) - PAINT RELATED MATERIAL, flammable
Outside ADR/IMDG = UN 1263 - 3 (F1) - PAINT RELATED MATERIAL, flammable

- **Maritime transport IMDG/GGVSea:**
- **Marine pollutant:** No
- **Remarks:** No goods of grade 3 according to 2.2.3.1.5 ADR and 2.3.2.5 IMDG
ADR: Containers > 450 l = UN 1263 - 3 (F1) - PAINT RELATED MATERIAL, flammable
IMDG: Containers > 30 l = UN 1263 - 3 (F1) - PAINT RELATED MATERIAL, flammable
Outside ADR/IMDG = UN 1263 - 3 (F1) - PAINT RELATED MATERIAL, flammable

- Air transport ICAO-TI and IATA-DGR:




- **ICAO/IATA Class:** 3
- **UN/ID Number:** 1263
- **Label:** 3
- **Packaging group:** III
- **Correct technical name:** PAINT RELATED MATERIAL

- **Transport/Additional information:** -

15 Regulatory information

- **Designation according to EC guidelines:** The product has been classified and labelled in accordance with EC Directives / Ordinance on Hazardous Materials (GefStoffV)

- **Code letter and hazard designation of product:**


Xi Irritant

- **Hazard-determining components of labelling:** Solvent naphtha (petroleum), light arom.
Poly(3-isocyanatomethyl- 3,5,5-trimethylcyclohexylisocyanate)

- **Risk phrases:**
 - 10 Flammable.
 - 43 May cause sensitisation by skin contact.
 - 52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

- **Safety phrases:**
 - 9 Keep container in a well-ventilated place.
 - 16 Keep away from sources of ignition - No smoking.
 - 20 When using do not eat or drink.
 - 23 Do not breathe gas/fumes/vapour/spray (appropriate wording to be specified by the manufacturer).
 - 24/25 Avoid contact with skin and eyes.
 - 33 Take precautionary measures against static discharges.

- **Special designation of certain preparations:** Only for trade users / technical specialists

- **National regulations**

- **Information about limitation of use:** Employment restrictions concerning young persons must be observed.

- **Classification according to VbF:** no longer valid - refer to PUWER (Provision and Use of Work Equipment Regulations)

- **Classification according to Provision and Use of Work Equipment Regulations (PUWER)** Flammable

- **Water hazard class:** Water hazard class 1: slightly hazardous for water.

- **Other regulations, limitations and prohibitive regulations**
- **Storage** Store away from foodstuffs.
- **VOC and MAL** .
- **VOC-EU [g/l]** 302.0 g/l
- **VOC-EU [%]** 28.60 %
- **VOC-USA [g/l]** 302.0 g/l / 2.52 lb/gl
- **MAL** 5-6

16 Other information:

These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- **Relevant R-phrases** 10 Flammable.

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- 20 Harmful by inhalation.
23 Toxic by inhalation.
36 Irritating to eyes.
36/37/38 Irritating to eyes, respiratory system and skin.
37 Irritating to respiratory system.
42/43 May cause sensitisation by inhalation and skin contact.
43 May cause sensitisation by skin contact.
45 May cause cancer.
50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
65 Harmful: may cause lung damage if swallowed.

- **Department issuing data specification sheet:**

- **Contact:**

- **Abbreviations and acronyms:**

Representative for Hazardous Substances

Dr. Kissel

MSDS@KEMPER-SYSTEM.COM

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)

ICAO: International Civil Aviation Organization

ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO)

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

VbF: Verordnung über brennbare Flüssigkeiten, Österreich (Ordinance on the storage of combustible liquids, Austria)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

- * **Data compared to the previous version altered.**