

Safety Data Sheet

according to 1907/2006/EC, Article 31

Printing date 26.03.2009

V - 1

Revision: 26.03.2009

1 Identification of the substance/preparation and of the company/undertaking

· **Product details**

· **Trade name:** CARSYSTEM KS-500 UNTERBODENSCHUTZ BITUMEN

· **Application of the substance / the preparation** Anticorrosion additive

· **Manufacturer/Supplier:**

Vosschemie GmbH

Esinger Steinweg 50

D-25436 Uetersen

Phone: +49 4122 717 0 Fax: +49 4122 717158 info@vosschemie.de

· **Further information obtainable from:**

Abteilung Labor / +49-4122-717-0

s.schaller@vosschemie.de

· **Information in case of emergency:**

Giftinformationszentrum (GIZ)-Nord, Goettingen, Deutschland

+49-551-19240, +49-551-383180

2 Hazards identification

· **Hazard description:** Not applicable.

· **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.

At long or repeated contact with skin it may cause dermatitis due to the degreasing effect of the solvent.

Has a narcotizing effect.

R 10 Flammable.

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

R 66 Repeated exposure may cause skin dryness or cracking.

R 67 Vapours may cause drowsiness and dizziness.

· **Classification system:**









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

3 Composition/information on ingredients

· **Chemical characterization**

· **Description:** Mixture of substances listed below with nonhazardous additions.

· **Dangerous components:**

EINECS: 265-151-9	Naphtha (petroleum), hydrotreated light  Xn; R 10-65-66-67	10-25%
EINECS: 265-199-0	Solvent naphtha (petroleum), light arom.  Xn,  Xi,  N; R 10-37-51/53-65-66-67	10-25%
EINECS: 265-185-4	Naphtha (petroleum), hydrodesulfurized heavy  Xn,  N; R 10-51/53-65-66-67	2.5-10%
CAS: 67-56-1 EINECS: 200-659-6	methanol  T,  F; R 11-23/24/25-39/23/24/25	1-2.5%

· **Additional information:** For the wording of the listed risk phrases refer to section 16.

4 First aid measures

· **General information:**

Personal protection for the First Aider.

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Take affected persons out of danger area and lay down.

Immediately remove any clothing soiled by the product.

· **After inhalation:**

Supply fresh air; consult doctor in case of complaints.

Take affected persons into fresh air and keep quiet.

In case of unconsciousness place patient stably in side position for transportation.

· **After skin contact:**

Immediately wash with water and soap and rinse thoroughly.

If skin irritation continues, consult a doctor.

· **After eye contact:** Rinse opened eye for several minutes under running water. Then consult a doctor.

· **After swallowing:** Do not induce vomiting; call for medical help immediately.

5 Fire-fighting measures

· **Suitable extinguishing agents:**

CO₂, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

· **For safety reasons unsuitable extinguishing agents:** Water

· **Special hazards caused by the substance, its products of combustion or resulting gases:**

Carbon monoxide and carbon dioxide

During heating or in case of fire poisonous gases are produced.

· **Protective equipment:**

Do not inhale explosion gases or combustion gases.

Wear self-contained respiratory protective device.

Wear fully protective suit.

· **Additional information**

Remove undamaged containers from the danger zone.

Cool endangered receptacles with water spray.

Collect contaminated fire fighting water separately. It must not enter the sewage system.

Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

6 Accidental release measures

· **Person-related safety precautions:**

Wear protective equipment. Keep unprotected persons away.

Ensure adequate ventilation

Keep away from ignition sources.

Use respiratory protective device against the effects of fumes/dust/aerosol.

Avoid contact with the eyes and skin.

· **Measures for environmental protection:**

Inform respective authorities in case of seepage into water course or sewage system.

Do not allow to enter sewers/ surface or ground water.

· **Measures for cleaning/collecting:**

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

Dispose contaminated material as waste according to item 13.

7 Handling and storage

· **Handling:**

· **Information for safe handling:**

Keep receptacles tightly sealed.

Prevent formation of aerosols.

Do not inhale gases / fumes / aerosols.

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*Ensure good ventilation/exhaustion at the workplace.**Avoid contact with the eyes and skin.***· Information about fire - and explosion protection:***Fumes can combine with air to form an explosive mixture.**Keep ignition sources away - Do not smoke.**Protect against electrostatic charges.***· Storage:****· Requirements to be met by storerooms and receptacles:** *Store only in the original receptacle.***· Information about storage in one common storage facility:** *Keep away from foodstuffs, beverages and feed.***· Further information about storage conditions:***Store in cool, dry conditions in well sealed receptacles.**Store receptacle in a well ventilated area.**Keep ignition sources away - Do not smoke.*

8 Exposure controls/personal protection

· Additional information about design of technical facilities: *No further data; see item 7.***· Ingredients with limit values that require monitoring at the workplace:****67-56-1 methanol**WEL (Great Britain) Short-term value: 333 mg/m³, 250 ppmLong-term value: 266 mg/m³, 200 ppm

Sk

IOELV (EU) Long-term value: 260 mg/m³, 200 ppm

Skin

· Additional information: *The lists valid during the making were used as basis.***· Personal protective equipment:****· General protective and hygienic measures:***Keep away from foodstuffs, beverages and feed.**Do not eat, drink, smoke or sniff while working.**Wash hands before breaks and at the end of work.**Immediately remove all soiled and contaminated clothing**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.**Filter A/P2***· Protection of hands:**

Protective gloves

*To avoid skin problems reduce the wearing of gloves to the required minimum.**Check the permeability prior to each renewed use of the glove.**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**

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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

· **Body protection:** Protective work clothing

9 Physical and chemical properties

· **General Information**

Form:	Fluid
Colour:	Black
Odour:	Characteristic

· **Change in condition**

Melting point/Melting range: Undetermined.
Boiling point/Boiling range: 135°C

· **Flash point:** 27°C

· **Ignition temperature:** 200°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:**

Lower:	0.6 Vol %
Upper:	7.0 Vol %

· **Vapour pressure at 20°C:** 7 hPa

· **Density at 20°C:** 1.04 g/cm³

· **Solubility in / Miscibility with water:**

Not miscible or difficult to mix.

· **Viscosity:**

Dynamic at 20°C:	1700 mPas
Organic solvents:	41.9 %
VOC (EC)	2004/42/IIB (e) (840) < 440

· **Solids content:** 58.1 %

10 Stability and reactivity

- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **Dangerous reactions** No dangerous reactions known.

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· **Dangerous decomposition products:** No dangerous decomposition products known.

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11 Toxicological information

· **Acute toxicity:**

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

Solvent naphtha (petroleum), light arom.

Oral	LD50	>6800 mg/kg (rat)
Dermal	LD50	>3400 mg/kg (rabbit)
Inhalative	LC50/4 h	>10.2 mg/l (rat)

67-56-1 methanol

Oral	LD50	5628 mg/kg (rat)
Dermal	LD50	15800 mg/kg (rabbit)

· **Primary irritant effect:**

· **on the skin:** No irritant effect.

· **on the eye:** No irritating effect.

· **Sensitisation** No sensitizing effects known.

12 Ecological information

· **Ecotoxicological effects:**

· **Remark:** Harmful to fish

· **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

13 Disposal considerations

· **Product:**

· **Recommendation**

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

Disposal must be made according to official regulations.

· **European waste catalogue**

08 01 11	waste paint and varnish containing organic solvents or other dangerous substances
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· **Uncleaned packaging:**

· **Recommendation:** Disposal must be made according to official regulations.

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14 Transport information**· Land transport ADR/RID (cross-border)**

- **ADR/RID class:** 3 Flammable liquids.
- **UN-Number:** 1139
- **Packaging group:** III
- **Hazard label:** 3
- **Description of goods:** 1139 COATING SOLUTION

· Maritime transport IMDG:

- **IMDG Class:** 3
- **UN Number:** 1139
- **Label** 3
- **Packaging group:** III
- **EMS Number:** F-E,S-E
- **Proper shipping name:** COATING SOLUTION

· Air transport ICAO-TI and IATA-DGR:

- **ICAO/IATA Class:** 3
- **UN/ID Number:** 1139
- **Label** 3
- **Packaging group:** III
- **Proper shipping name:** COATING SOLUTION

15 Regulatory information**· Labelling according to EU guidelines:**

The product has been classified and marked in accordance with EU Directives / Ordinance on Hazardous Materials.

· Risk phrases:

- 10 Flammable.
- 52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- 66 Repeated exposure may cause skin dryness or cracking.
- 67 Vapours may cause drowsiness and dizziness.

· Safety phrases:

- 2 Keep out of the reach of children.
- 9 Keep container in a well-ventilated place.
- 23 Do not breathe fumes/aerosol.
- 24/25 Avoid contact with skin and eyes.
- 38 In case of insufficient ventilation, wear suitable respiratory equipment.

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- 46 If swallowed, seek medical advice immediately and show this container or label.
51 Use only in well-ventilated areas.
61 Avoid release to the environment. Refer to special instructions/safety data sheets.

· National regulations:**· Information about limitation of use:**

Employment restrictions concerning juveniles must be observed.

Employment restrictions concerning pregnant and lactating women must be observed.

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 R-phrases

- 10 Flammable.
11 Highly flammable.
23/24/25 Toxic by inhalation, in contact with skin and if swallowed.
37 Irritating to respiratory system.
39/23/24/25 Toxic: danger of very serious irreversible effects through inhalation, in contact with skin and if swallowed.
51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
65 Harmful: may cause lung damage if swallowed.
66 Repeated exposure may cause skin dryness or cracking.
67 Vapours may cause drowsiness and dizziness.

· Department issuing MSDS: Abteilung Labor**· Contact:** Frau S. Schaller

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