

Safety Data Sheet
according to 1907/2006/EC, Article 31

Printing date 25.03.2009

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Revision: 25.03.2009

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

· **Product details**

· **Trade name:** **CARSYSTEM KUPFER SPRAY**

· **Application of the substance / the preparation** Lubricant

· **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:**



F+ Extremely flammable

N Dangerous for the environment

· **Information concerning particular hazards for human and environment:**

Has a narcotizing effect.

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

Contact with skin and inhalation of aerosols/ vapours of the preparation should be avoided.

Warning! Pressurized container.

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 12 Extremely flammable.

R 51/53 Toxic 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.

Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn, even after use.

Do not spray on a naked flame or any incandescent material. Keep away from sources of ignition - No smoking.

Keep out of the reach of children

· **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:**

CAS: 109-66-0	pentane	☒ Xn, ☒ F+, ☒ N; R 12-51/53-65-66-67	25-50%
EINECS: 203-692-4			

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CAS: 74-98-6 EINECS: 200-827-9	propane	 F+; R 12	12.5-20%
CAS: 106-97-8 EINECS: 203-448-7	butane	 F+; R 12	10-12.5%
CAS: 75-28-5 EINECS: 200-857-2	isobutane	 F+; R 12	10-12.5%
CAS: 7440-50-8 EINECS: 231-159-6	copper		2.5-5%
CAS: 68649-42-3	Zinc alkyldithiophosphate	 Xi,  N; R 38-41-51/53	0.1-1%

· **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.

Take affected persons out of danger area and lay down.

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

Immediately remove any clothing soiled by the product.

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. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.

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:** Drink plenty of water and provide fresh air. Call for a doctor immediately.

5 Fire-fighting measures

· **Suitable extinguishing agents:** CO₂, sand, extinguishing powder. Do not use water.

· **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

Formation of toxic gases is possible during heating or in case of fire.

· **Protective equipment:**

Do not inhale explosion gases or combustion gases.

Wear self-contained respiratory protective device.

· **Additional information**

Cool endangered receptacles with water spray.

Remove undamaged containers from the danger zone.

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

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

6 Accidental release measures

· **Person-related safety precautions:**

Wear protective equipment. Keep unprotected persons away.

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- Keep away from ignition sources.
Ensure adequate ventilation
Do not inhale gases / fumes / aerosols.
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).
Ensure adequate ventilation.
Dispose contaminated material as waste according to item 13.
Do not flush with water or aqueous cleansing agents

7 Handling and storage

- **Handling:**
- **Information for safe handling:**
Open and handle receptacle with care.
Keep away from heat and direct sunlight.
Ensure good ventilation/exhaustion at the workplace.
Ensure good interior ventilation, especially at floor level. (Fumes are heavier than air).
Do not inhale gases / fumes / aerosols.
Avoid contact with the eyes and skin.
- **Information about fire - and explosion protection:**
Fumes can combine with air to form an explosive mixture.
Do not spray onto a naked flame or any incandescent material.
Keep ignition sources away - Do not smoke.
Protect against electrostatic charges.
Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C, i.e. electric lights. Do not pierce or burn, even after use.
- **Storage:**
- **Requirements to be met by storerooms and receptacles:**
Store in a cool location.
Observe official regulations on storing packagings with pressurized containers.
- **Information about storage in one common storage facility:** Store away from foodstuffs.
- **Further information about storage conditions:**
Store in cool, dry conditions in well sealed receptacles.
Store receptacle in a well ventilated area.
Keep container tightly sealed.
Protect from heat and direct sunlight.

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:**

109-66-0 pentane

WEL (Great Britain)	Long-term value: 1800 mg/m ³ , 600 ppm
IOELV (EU)	Long-term value: 3000 mg/m ³ , 1000 ppm

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106-97-8 butane

WEL (Great Britain) Short-term value: 1810 mg/m³, 750 ppm
Long-term value: 1450 mg/m³, 600 ppm
Carc (if more than 0.1% of buta-1.3-diene)

7440-50-8 copper

WEL (Great Britain) Short-term value: 2** mg/m³
Long-term value: 0.2* I** mg/m³
*fume **dusts and mists (as Cu)

- **Additional information:** The lists valid during the making were used as basis.
- **Personal protective equipment:**
- **General protective and hygienic measures:**
 - Do not eat, drink, smoke or sniff while working.
 - Do not inhale gases / fumes / aerosols.
 - Keep away from foodstuffs, beverages and feed.
 - Immediately remove all soiled and contaminated clothing
 - Store protective clothing separately.
 - Avoid contact with the eyes and skin.
 - Use skin protection cream for skin protection.
 - Wash hands before breaks and at the end of work.
- **Respiratory protection:**
 - No special procedures required if all workplace limit values are continuously respected.
 - Use suitable respiratory protective device in case of insufficient ventilation.
 - 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 anewed use of the glove.
- 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
- Preventive skin protection by use of skin-protecting agents is recommended.
- **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 trough time has to be found out by the manufacturer of the protective gloves and has to be observed.
- **Eye protection:**



Tightly sealed goggles

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· **Body protection:** Protective work clothing

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9 Physical and chemical properties

· General Information

Form:	Aerosol
Colour:	Clear
Odour:	Characteristic

· Change in condition

Melting point/Melting range: Undetermined.
Boiling point/Boiling range: Not applicable, as aerosol.

· **Flash point:** Not applicable, as aerosol.

· **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:	1.4 Vol %
Upper:	10.9 Vol %

· **Vapour pressure at 20°C:** 3500 hPa

· **Density at 20°C:** 0.69 g/cm³

· Solubility in / Miscibility with water:

Not miscible or difficult to mix.

10 Stability and reactivity

· **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.

· Dangerous reactions

Forms explosive gas mixture with air.
Danger of bursting.

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

11 Toxicological information

· Acute toxicity:

· 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:** Toxic for fish

· General notes:

Also poisonous for fish and plankton in water bodies.

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Toxic for aquatic organisms
Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water
Do not allow product to reach ground water, water course or sewage system.

13 Disposal considerations

- **Product:**
- **Recommendation**
Disposal must be made according to official regulations.
Must not be disposed together with household garbage. Do not allow product to reach sewage system.

- **European waste catalogue**

20 01 13	solvents
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- **Uncleaned packaging:**
- **Recommendation:** Disposal must be made according to official regulations.

14 Transport information

- **Land transport ADR/RID (cross-border)**



- **ADR/RID class:** 2 5F Gases.
- **UN-Number:** 1950
- **Hazard label:** 2.1
- **Description of goods:** 1950 AEROSOLS

- **Maritime transport IMDG:**



- **IMDG Class:** 2
- **UN Number:** 1950
- **Label** 2.1
- **EMS Number:** F-D,S-U
- **Marine pollutant:** Yes
- **Proper shipping name:** AEROSOLS

- **Air transport ICAO-TI and IATA-DGR:**



- **ICAO/IATA Class:** 2.1
- **UN/ID Number:** 1950
- **Label** 2.1
- **Proper shipping name:** AEROSOLS, flammable

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

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

· Code letter and hazard designation of product:

F+ Extremely flammable

N Dangerous for the environment

· Risk phrases:

- 12 Extremely flammable.
- 51/53 Toxic 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.
- 23 Do not breathe fumes/aerosol.
- 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
- 29/56 Do not empty into drains, dispose of this material and its container at hazardous or special waste collection point.
- 46 If swallowed, seek medical advice immediately and show this container or label.
- 51 Use only in well-ventilated areas.

· Special labelling of certain preparations:

Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn, even after use.

Do not spray on a naked flame or any incandescent material. Keep away from sources of ignition - No smoking.

Keep out of the reach of children

· 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

- 12 Extremely flammable.
- 38 Irritating to skin.
- 41 Risk of serious damage to eyes.
- 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