

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

Printing date 11.03.2011







V - 3

Revision: 11.03.2011

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

- **Product identifier**
- **Trade name:** *CARSYSTEM KS-1050 KAROSSERIESCHUTZ schwarz*
- **Relevant identified uses of the substance or mixture and uses advised against** *Not determined*
- **Application of the substance / the preparation** *Coating compound/ Surface coating/ paint*
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**  
*Vosschemie GmbH  
Esinger Steinweg 50  
D-25436 Uetersen  
Phone: +49 (0)4122 717 0; Fax: +49 (0)4122 717158; info@vosschemie.de*
- **Further information obtainable from:**  
*Abteilung Labor / +49 (0)4122 717 0  
s.schaller@vosschemie.de*
- **Emergency telephone number:**  
*Giftinformationszentrum (GIZ)-Nord, Goettingen, Deutschland  
+49 (0)551 19240, +49 (0)551 383180*

## 2 Hazards identification

- **Classification of the substance or mixture**
  - **Classification according to Directive 67/548/EEC or Directive 1999/45/EC**
  -  *Xi; Irritant*  
*R38: Irritating to skin.*
  -  *F+; Extremely flammable*  
*R12: Extremely flammable.*
  -  *N; Dangerous for the environment*  
*R51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.*  
*R67: Vapours may cause drowsiness and dizziness.*
  - **Information concerning particular hazards for human and environment:**  
*Has a narcotizing effect.  
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.*
  - **Classification system:**  
*The classification is according to the latest editions of the EU-lists, and extended by company and literature data.*
- 
- **Label elements**
  - **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:**
- 



*Xi Irritant*

*F+ Extremely flammable*

*N Dangerous for the environment*

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**· Risk phrases:**

- 12 Extremely flammable.  
38 Irritating to skin.  
51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.  
67 Vapours may cause drowsiness and dizziness.

**· Safety phrases:**

- 2 Keep out of the reach of children.  
16 Keep away from sources of ignition - No smoking.  
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.

**· Other hazards****· Results of PBT and vPvB assessment**


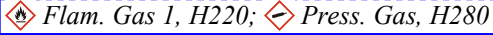

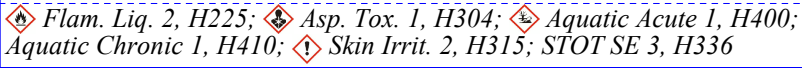
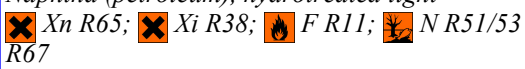
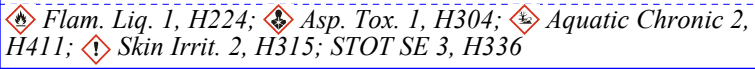

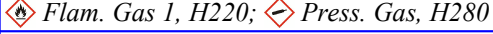

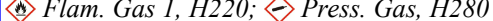
- **PBT:** Not applicable.  
· **vPvB:** Not applicable.

### 3 Composition/information on ingredients

**· Chemical characterization: Mixtures**

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

**· Dangerous components:**

CAS: 74-98-6 EINECS: 200-827-9	propane  F+ R12 	12.5-20%
CAS: 110-82-7 EINECS: 203-806-2	cyclohexane  	12.5-20%
EINECS: 265-151-9	Naphtha (petroleum), hydrotreated light  	10-12.5%
CAS: 106-97-8 EINECS: 203-448-7	butane  F+ R12 	10-12.5%
CAS: 75-28-5 EINECS: 200-857-2	isobutane  F+ R12 	5-10%

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CAS: 78-93-3 EINECS: 201-159-0	butanone ☒ Xi R36; ☒ F R11 R66-67 ☒ Flam. Liq. 2, H225; ☒ Eye Irrit. 2, H319; STOT SE 3, H336	5-10%
EINECS: 265-199-0	Solvent naphtha (petroleum), light arom. ☒ Xn R65; ☒ Xi R37; ☒ N R51/53 R10-66-67 ☒ Flam. Liq. 3, H226; ☒ Asp. Tox. 1, H304; ☒ Aquatic Chronic 2, H411; ☒ STOT SE 3, H335+H336	5-10%

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

#### 4 First aid measures

· **Description of 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 Firefighting measures

· **Extinguishing media**

· **Suitable extinguishing agents:**

CO<sub>2</sub>, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

· **For safety reasons unsuitable extinguishing agents:** Water with full jet

· **Special hazards arising from the substance or mixture**

Carbon monoxide and carbon dioxide

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

· **Advice for firefighters**

· **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.

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## 6 Accidental release measures

### · **Personal precautions, protective equipment and emergency procedures**

Wear protective equipment. Keep unprotected persons away.

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.

### · **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.

### · **Methods and material for containment and cleaning up:**

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

Ensure adequate ventilation.

Do not flush with water or aqueous cleansing agents

### · **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.

## 7 Handling and storage

### · **Handling:**

#### · **Precautions 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.

#### · **Conditions for safe storage, including any incompatibilities**

#### · **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.

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## 8 Exposure controls/personal protection

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

### · Ingredients with limit values that require monitoring at the workplace:

#### 110-82-7 cyclohexane

WEL (Great Britain)	Short-term value: 1050 mg/m <sup>3</sup> , 300 ppm Long-term value: 350 mg/m <sup>3</sup> , 100 ppm
IOELV (EU)	Long-term value: 700 mg/m <sup>3</sup> , 200 ppm

#### 106-97-8 butane

WEL (Great Britain)	Short-term value: 1810 mg/m <sup>3</sup> , 750 ppm Long-term value: 1450 mg/m <sup>3</sup> , 600 ppm Carc (if more than 0.1% of buta-1.3-diene)
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#### 78-93-3 butanone

WEL (Great Britain)	Short-term value: 899 mg/m <sup>3</sup> , 300 ppm Long-term value: 600 mg/m <sup>3</sup> , 200 ppm Sk
IOELV (EU)	Short-term value: 900 mg/m <sup>3</sup> , 300 ppm Long-term value: 600 mg/m <sup>3</sup> , 200 ppm

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

### · Exposure controls

#### · 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:

- Not necessary if room is well-ventilated.
- Adhere to the workplace limit values and / or other threshold values.

#### · 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**

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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

- **Information on basic physical and chemical properties**

- **General Information**

- **Appearance:**

**Form:** Aerosol

**Colour:** Black

· **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:** 1.1 Vol %

**Upper:** 10.9 Vol %

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

· **Density at 20°C:** ~0.78 g/cm<sup>3</sup>

- **Solubility in / Miscibility with**

**water:** Not miscible or difficult to mix.

**VOC (EC)** 2004/42/IIB (e) (840) <840

## 10 Stability and reactivity

- **Reactivity**

- **Chemical stability**

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

- **Possibility of hazardous reactions**

Forms explosive gas mixture with air.

Danger of bursting.

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

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### 11 Toxicological information

· **Information on toxicological effects**

· **Acute toxicity:**

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

#### 110-82-7 cyclohexane

Oral	LD50	12705 mg/kg (rat)
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#### Solvent naphtha (petroleum), light arom.

Oral	LD50	>6800 mg/kg (rat)
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Dermal	LD50	>3400 mg/kg (rabbit)
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Inhalative	LC50/4 h	>10.2 mg/l (rat)
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· **Primary irritant effect:**

· **on the skin:** Irritant to skin and mucous membranes.

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

· **Additional toxicological information:**

Vapours may cause drowsiness and dizziness.

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

Irritant

· **Sensitisation** No sensitizing effects known.

### 12 Ecological information

· **Toxicity**

· **Aquatic toxicity:** No further relevant information available.

· **Persistence and degradability** No further relevant information available.

· **Behaviour in environmental systems:**

· **Bioaccumulative potential** No further relevant information available.

· **Ecotoxicological effects:**

· **Remark:** Toxic for fish

· **Additional ecological information:**

· **General notes:**

Also poisonous for fish and plankton in water bodies.

Toxic for aquatic organisms

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.

· **Results of PBT and vPvB assessment**

· **PBT:** Not applicable.

· **vPvB:** Not applicable.

### 13 Disposal considerations

· **Waste treatment methods**

· **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.

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· **European waste catalogue**

08 01 11 waste paint and varnish containing organic solvents or other dangerous substances

· **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
- **Special marking:** Symbol (fish and tree)
- **UN proper shipping name:** 1950 AEROSOLS
- **Limited quantities (LQ)** LQ2

· **Maritime transport IMDG:**

- **IMDG Class:** 2.1
- **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

· **Special precautions for user** Warning: Gases.\* **15 Regulatory information**· **Safety, health and environmental regulations/legislation specific for the substance or mixture**· **National regulations:**· **Information about limitation of use:**

Employment restrictions concerning juveniles must be observed.

Employment restrictions concerning pregnant and lactating women must be observed.

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· **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

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### 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**

- H220 Extremely flammable gas.
- H224 Extremely flammable liquid and vapour.
- H225 Highly flammable liquid and vapour.
- H226 Flammable liquid and vapour.
- H280 Contains gas under pressure; may explode if heated.
- H304 May be fatal if swallowed and enters airways.
- H315 Causes skin irritation.
- H319 Causes serious eye irritation.
- H335 May cause respiratory irritation.
- H336 May cause drowsiness or dizziness.
- H400 Very toxic to aquatic life.
- H410 Very toxic to aquatic life with long lasting effects.
- H411 Toxic to aquatic life with long lasting effects.
- R10 Flammable.
- R11 Highly flammable.
- R12 Extremely flammable.
- R36 Irritating to eyes.
- R37 Irritating to respiratory system.
- R38 Irritating to skin.
- 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.

· **Department issuing MSDS:** Abteilung Labor

· **Contact:** Frau S. Schaller

· **\* Data compared to the previous version altered.**