

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

Printing date 06.12.2014

Version number 2

Revision: 21.08.2013

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

· **1.1 Product identifier**

· **Trade name:** *Rim Cleaner 3in1 RM 617*

· **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** *Exterior vehicle cleaner*

· **1.3 Details of the supplier of the safety data sheet**

· **Manufacturer/Supplier:**

*Alfred Kärcher GmbH & Co. KG  
Alfred-Kärcher-Str. 28-40  
D - 71364 Winnenden*

*Postfach 160  
D - 71349 Winnenden*

*Tel.: +49-7195-14-0  
Fax : +49-7195-14-2212*

*www.karcher.com*

· **Further information obtainable from:**

*Department PDE-D  
Tel.: +49-7195-14-2398  
Fax : +49-7195-14-3164  
safetydata@karcher.com*

· **1.4 Emergency telephone number:** *Tel.: 0049 30 30686 790 Giftnotruf Berlin*

**SECTION 2: Hazards identification**

· **2.1 Classification of the substance or mixture**

· **Classification according to Directive 67/548/EEC or Directive 1999/45/EC**  
*Xi; Sensitising*

*R43: May cause sensitisation by skin contact.*

· **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 EU guidelines:**

*The product has been marked in accordance with EU Directives / respective national laws.*

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



*Xi Irritant*

· **Hazard-determining components of labelling:**

*sodium mercaptoacetate*

· **Risk phrases:**

*43 May cause sensitisation by skin contact.*

· **Safety phrases:**

- 2 Keep out of the reach of children.*
- 23 Do not breathe vapour/spray.*
- 24 Avoid contact with skin.*
- 37 Wear suitable gloves.*
- 46 If swallowed, seek medical advice immediately and show this container or label.*
- 51 Use only in well-ventilated areas.*
- 56 Dispose of this material and its container to hazardous or special waste collection point.*

· **2.3 Other hazards**

*The product does not contain any organic halogen compounds (AOX), nitrates, heavy metal compounds.*

· **Results of PBT and vPvB assessment**

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

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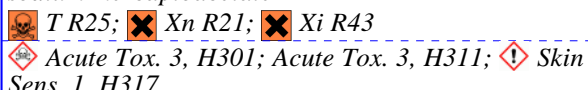
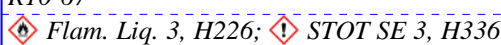
**SECTION 3: Composition/information on ingredients**

· **3.2 Chemical characterisation: Mixtures**

· **Description:**

*Mixture of substances listed below with non-hazardous additions.  
Cleaning agent*

· **Dangerous components:**

CAS: 367-51-1 EINECS: 206-696-4	sodium mercaptoacetate 	< 3,0%
CAS: 107-98-2 EINECS: 203-539-1 Index number: 603-064-00-3 Reg.nr.: 01-2119457435-35-XXXX	1-methoxypropan-2-ol R10-67 	< 3,0%

· **Regulation (EC) No 648/2004 on detergents / Labelling for contents**

<i>non-ionic surfactants, amphoteric surfactants, anionic surfactants</i>	<i>&lt; 5%</i>
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· **Additional information** For the wording of the listed risk phrases refer to section 16.

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#### **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.  
Supply fresh air; consult doctor in case of complaints.
- **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**  
Rinse out mouth and then drink plenty of water.  
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** Use fire extinguishing methods suitable to surrounding conditions.
- **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:** No special measures required.

#### **SECTION 6: Accidental release measures**

- **6.1 Personal precautions, protective equipment and emergency procedures** Not required.
- **6.2 Environmental precautions:**  
Dilute with plenty of water.  
Do not allow to enter sewers/ surface or ground water.  
Do not allow to penetrate the ground/soil.
- **6.3 Methods and material for containment and cleaning up:**  
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders).  
Ensure adequate ventilation.
- **6.4 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.

#### **SECTION 7: Handling and storage**

- **7.1 Precautions for safe handling**  
Ensure good ventilation/exhaustion at the workplace.  
Prevent formation of aerosols.

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- **Information about fire - and explosion protection:** No special measures required.
- **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:** Not required.
- **Further information about storage conditions:** None.
- **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:**

**107-98-2 1-methoxypropan-2-ol**

<b>IOELV</b>	Short-term value: 568 mg/m <sup>3</sup> , 150 ppm Long-term value: 375 mg/m <sup>3</sup> , 100 ppm Skin
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· **8.2 Exposure controls**

· **Personal protective equipment**

· **General protective and hygienic measures**

Immediately remove all soiled and contaminated clothing

Wash hands before breaks and at the end of work.

Do not inhale gases / fumes / aerosols.

· **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.

Not necessary if room is well-ventilated.

· **Protection of hands:**



Protective gloves.

· **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 through time has to be found out by the manufacturer of the protective gloves and has to be observed.

· **Eye protection:** Goggles recommended during refilling.

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**SECTION 9: Physical and chemical properties**

· **9.1 Information on basic physical and chemical properties**

· **General Information**

· **Appearance:**

**Form:** Fluid

**Colour:** Blue

· **Odour:** Characteristic

· **Odour threshold:** Not determined.

· **pH-value at 20 °C:** 9,1

· **pH-value 1 %:** 7,7

· **Change in condition**

**Melting point/Melting range:** 0 °C

**Boiling point/Boiling range:** 100 °C

· **Flash point:** > 100 °C

· **Flammability (solid, gaseous)** Not applicable.

· **Ignition temperature:** not applicable

· **Decomposition temperature:** Not determined.

· **Self-igniting:** Product is not selfigniting.

· **Danger of explosion:** Product does not present an explosion hazard.

· **Explosion limits:**

**Lower:** Not determined.

**Upper:** Not determined.

· **Vapour pressure:** Not determined.

· **Density at 20 °C:** 1,025 g/cm<sup>3</sup>

· **Relative density** Not determined.

· **Vapour density** Not determined.

· **Evaporation rate** Not determined.

· **Solubility in / Miscibility with**

**Water:** Fully miscible

· **Partition coefficient (n-octanol/water):** Not determined.

· **Viscosity:**

**dynamic at 20 °C:** 110 mPas

**kinematic:** Not determined.

· **Solvent content:**

**Organic solvents:** 1,5 %

**VOC (EC)** 1,51 %

**Solids content:** 7,0 %

· **9.2 Other information** No further relevant information available.

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**SECTION 10: Stability and reactivity**

- **10.1 Reactivity** corresponds to 10.3
- **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:**

**367-51-1 sodium mercaptoacetate**

Dermal	LD50	1000-2000 mg/kg (Rat)
Inhalative	LC50	100 mg/kg (Rat)

**107-98-2 1-methoxypropan-2-ol**

Dermal	LD50	> 2000 mg/kg (rbt)
Inhalative	LC50	4016 mg/kg (Rat)
	LC50/4 h	6 mg/l (Rat)

- **Primary irritant effect:**
- **on the skin:** No irritant effect.
- **Sensitisation:** Sensitisation possible through skin contact.
- **Additional toxicological information:**  
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

**SECTION 12: Ecological information**

- **12.1 Toxicity**

- **Aquatic toxicity:**

**367-51-1 sodium mercaptoacetate**

EC50/48 h	38 mg/l (Daphnia magna)
LC50/48 h	880 mg/l (Leuciscus idus)

- **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.
- **Additional ecological information:**
- **CSB-value:** 90400 mg/l

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- **General notes:**  
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.
- **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.  
Must be specially treated adhering to official regulations.

· **European waste catalogue**

07 06 01\* aqueous washing liquids and mother liquors

- **Uncleaned packaging:**
- **Recommendation:** Non contaminated packagings may be recycled.
- **Recommended cleansing agents:** Water, if necessary together with cleaning agents.

**SECTION 14: Transport information**

- |   |  |
|---|--|
| · <b>14.1 UN-Number</b>   | Void   |
| · <b>ADR, ADN, IMDG, IATA</b>   | Void   |
| · <b>14.2 UN proper shipping name</b>   | Void   |
| · <b>ADR, ADN, IMDG, IATA</b>   | Void   |
| · <b>14.3 Transport hazard class(es)</b>  | Void   |
| · <b>ADR, ADN, IMDG, IATA</b>   | Void   |
| · <b>Class</b>  | Void   |
| · <b>14.4 Packing group</b>   | Void   |
| · <b>ADR, IMDG, IATA</b>  | Void   |
| · <b>14.5 Environmental hazards:</b>  |  |
| · <b>Marine pollutant:</b>  | No   |
| · <b>14.6 Special precautions for user</b>  | Not applicable.                                      |
| · <b>14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</b> | Not applicable.                                      |
| · <b>Transport/Additional information:</b>  | Not dangerous according to the above specifications. |

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**SECTION 15: Regulatory information**

- **15.1 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.*
- **15.2 Chemical safety assessment:** *A Chemical Safety Assessment has not been carried out.*

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**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. A product information sheet can be provided if requested.*

- **Relevant phrases**  
*H226 Flammable liquid and vapour.*  
*H301 Toxic if swallowed.*  
*H311 Toxic in contact with skin.*  
*H317 May cause an allergic skin reaction.*  
*H336 May cause drowsiness or dizziness.*
- *R10 Flammable.*
- *R21 Harmful in contact with skin.*
- *R25 Toxic if swallowed.*
- *R43 May cause sensitisation by skin contact.*
- *R67 Vapours may cause drowsiness and dizziness.*
- **Department issuing MSDS: PDE-D**
- **Contact:**  
*Department PDE-D*  
*Tel.: +49-7195-14-2398*  
*Fax : +49-7195-14-3164*  
*safetydata@karcher.com*
- **\* Data compared to the previous version altered.**
- *0.011-301.0 / RM 617/2 / 1.774*