

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

Printing date 07.02.2013

Version number 2

Revision: 07.02.2013

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

· **1.1 Product identifier**

· Trade name: **RM 99**

· **1.2 Relevant identified uses of the substance or mixture and uses advised against**

· **Sector of Use**

SU1 Agriculture, forestry, fishery

SU3 Industrial uses: Uses of substances as such or in preparations at industrial sites

SU21 Consumer uses: Private households / general public / consumers

SU22 Professional uses: Public domain (administration, education, entertainment, services, craftsmen)

· **Product category** PC35 Washing and cleaning products (including solvent based products)

· **Process category** PROC11 Non industrial spraying

· **Environmental release category** ERC8d Wide dispersive outdoor use of processing aids in open systems

· **Application of the substance / the preparation** High pressure 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

Kaercher Limited (Ireland)
C1 Centrepoint Business Park
Oak Road
Dublin 12

phone: +44-1295-752-031
fax: +44-1295-752-054

Internet: www.karcher.com

· **Further information obtainable from:**

Karcher Pty Ltd, Australia

Tel.: +61 3 9765 2300

Fax : +61 3 9765 2399

marketing@karcher.com.au

· **1.4 Emergency telephone number:** Tel.: 24 Hour Emergency Chemical Response 1800 033 111

SECTION 2: Hazards identification

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

· Classification according to Directive 67/548/EEC or Directive 1999/45/EC not applicable

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

The product does not have to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.

· **2.2 Label elements**

· **Labelling according to EU guidelines:**

Observe the general safety regulations when handling chemicals

The product has not been classified and marked in accordance with EU Directives / respective national laws.

(Contd. on page 2)

Safety data sheet
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Printing date 07.02.2013

Version number 2

Revision: 07.02.2013

Trade name: RM 99

(Contd. of page 1)

- **Safety phrases:**
 - 2 Keep out of the reach of children.
 - 23 Do not breathe vapour/spray.
- **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.

SECTION 3: Composition/information on ingredients

· **3.2 Chemical characterization: Mixtures**

· **Description:**

Cleaning agent

Mixture of substances listed below with non-hazardous additions.

· **Dangerous components:**

CAS: 112-34-5 EINECS: 203-961-6 Index number: 603-096-00-8 Reg.nr.: 02-2119751533-40-0000	2-(2-butoxyethoxy)ethanol ☉ Xi R36 ☒ Eye Irrit. 2, H319	4,5%
CAS: 111905-52-3	aliph. alcohols, C8-C14, lin., ethoxylated, butoxylated ☉ Xi R38 ☒ Eye Dam. 1, H318; ☒ Skin Irrit. 2, H315	3,5%
CAS: 67-63-0 EINECS: 200-661-7 Index number: 603-117-00-0 Reg.nr.: 02-2119752543-38	propan-2-ol ☉ Xi R36; ☉ F R11 R67 ☒ Flam. Liq. 2, H225; ☒ Eye Irrit. 2, H319; STOT SE 3, H336	3,5%
	Polyamine, anionic mod. ☉ Xn R20; ☉ Xi R41 ☒ Met. Corr.1, H290; Eye Dam. 1, H318; ☒ Acute Tox. 4, H332	1,5%
CAS: 95-14-7 EINECS: 202-394-1	benzotriazole ☉ Xn R20/22; ☉ Xi R36 ☒ Acute Tox. 4, H302; Acute Tox. 4, H332; Eye Irrit. 2, H319	1,3%
CAS: 2605-79-0 EINECS: 220-020-5	decyldimethyl aminoxide ☉ Xi R38-41 ☒ Eye Dam. 1, H318; ☒ Skin Irrit. 2, H315	1,2%

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

non-ionic surfactants, cationic surfactants

< 5%

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

SECTION 4: First aid measures

· **4.1 Description of first aid measures**

· **General information**

Involve doctor immediately.

No special measures required.

· **After inhalation** Supply fresh air; consult doctor in case of complaints.

· **After skin contact** Generally the product does not irritate the skin.

· **After eye contact** Rinse opened eye for several minutes under running water.

(Contd. on page 3)

Trade name: RM 99

(Contd. of page 2)

- **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**
CO₂, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **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**
No special measures required.
Ensure good ventilation/exhaustion at the workplace.
Prevent formation of aerosols.
- **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.
- **Storage class** VCI storage class: 12
- **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.

(Contd. on page 4)

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

Printing date 07.02.2013

Version number 2

Revision: 07.02.2013

Trade name: RM 99

(Contd. of page 3)

· **8.1 Control parameters**· **Ingredients with limit values that require monitoring at the workplace:****112-34-5 2-(2-butoxyethoxy)ethanol**

IOELV	Short-term value: 101,2 mg/m ³ , 15 ppm
	Long-term value: 67,5 mg/m ³ , 10 ppm

· **8.2 Exposure controls**· **Personal protective equipment**· **General protective and hygienic measures** Do not inhale gases / fumes / aerosols.· **Respiratory protection:**

Filter A/P2.

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:**

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

· **Material of gloves**

Butyl rubber, BR

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.

· **For the permanent contact of a maximum of 15 minutes gloves made of the following materials are suitable:**

Nitrile rubber, NBR

· **Not suitable are gloves made of the following materials:**

Strong material gloves

Leather gloves

· **Eye protection:** Goggles recommended during refilling.· **Body protection:** Light weight protective clothing

SECTION 9: Physical and chemical properties

· **9.1 Information on basic physical and chemical properties**· **General Information**· **Appearance:****Form:** Fluid**Colour:** Colourless· **Odour:** Characteristic· **Odour threshold:** Not determined.· **pH-value at 20 °C:** 9· **pH-value 1 %:** 8,5

(Contd. on page 5)

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

Printing date 07.02.2013

Version number 2

Revision: 07.02.2013

Trade name: RM 99

(Contd. of page 4)

· Change in condition	
Melting point/Melting range:	-1 °C
Boiling point/Boiling range:	100 °C
· Flash point:	62 °C
· Flammability (solid, gaseous)	Not applicable.
· Ignition temperature:	
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:	1,006 g/cm ³
· 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:	Not determined.
kinematic at 20 °C:	3 mm ² /s
· Solvent content:	
Organic solvents:	9,0 %
Water:	83,6 %
VOC (EC)	9,00 %
Solids content:	2,1 %
· 9.2 Other information	No further relevant information available.

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

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(Contd. on page 6)

Trade name: RM 99

(Contd. of page 5)

SECTION 11: Toxicological information

· 11.1 Information on toxicological effects

· Acute toxicity:

· Primary irritant effect:

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

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

· Additional toxicological information:

The product is not subject to classification according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version.

When used and handled according to specifications, the product does not have any harmful effects to our experience and the information provided to us.

SECTION 12: Ecological information

· 12.1 Toxicity

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

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

· **Other information:** The product is biodegradable.

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

· **12.4 Mobility in soil** No further relevant information available.

· Additional ecological information:

· **CSB-value:** 356000 mg/l

· General notes:

The surfactant(s) contained in this preparation complies(comply) with the biodegradability criteria as laid down in Regulation (EC) No.648/2004 on detergents. Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be made available to them, at their direct request or at the request of a detergent manufacturer.

The contained organic complexing agents reach a DOC-elimination grade of 80% (corresponding to No. 406 of Annex "Analytic and measuring methods") and with this meet the tightened demands of Annex 49 of the revised Directive on liquid waste.

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

Hand over to hazardous waste disposers.

Small amounts may be diluted with plenty of water and washed away. Dispose of bigger amounts in accordance with Local Authority requirements.

· European waste catalogue

07 06 01*	aqueous washing liquids and mother liquors
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· Uncleaned packaging:

· Recommendation:

Packagings that may not be cleansed are to be disposed of in the same manner as the product.

Non contaminated packagings may be recycled.

(Contd. on page 7)

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

Printing date 07.02.2013

Version number 2

Revision: 07.02.2013

Trade name: RM 99

(Contd. of page 6)

- **Recommended cleansing agents:** Water, if necessary together with cleaning agents.

SECTION 14: Transport information

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

SECTION 15: Regulatory information

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

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**
 - H225 Highly flammable liquid and vapour.
 - H290 May be corrosive to metals.
 - H302 Harmful if swallowed.
 - H315 Causes skin irritation.
 - H318 Causes serious eye damage.
 - H319 Causes serious eye irritation.
 - H332 Harmful if inhaled.
 - H336 May cause drowsiness or dizziness.
- **R11** Highly flammable.
- **R20** Harmful by inhalation.
- **R20/22** Harmful by inhalation and if swallowed.
- **R36** Irritating to eyes.
- **R38** Irritating to skin.
- **R41** Risk of serious damage to eyes.
- **R67** Vapours may cause drowsiness and dizziness.

- **Department issuing MSDS:** PDE-D

(Contd. on page 8)

EU

Safety data sheet
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Printing date 07.02.2013

Version number 2

Revision: 07.02.2013

Trade name: RM 99

(Contd. of page 7)

· **Contact:**

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

· 0.011-290.0 RM 99/1 1.717

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