

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

Printing date 15.08.2013

Version number 4

Revision: 17.07.2013

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

· **1.1 Product identifier**

· **Trade name:** **RM 69 ASF**

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

· **Sector of Use**

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

· **Process category PROC11** Non industrial spraying

· **Environmental release category**

ERC8a Wide dispersive indoor use of processing aids in open systems

ERC8d Wide dispersive outdoor use of processing aids in open systems

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

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

· **Manufacturer/Supplier:**

Alfred Kärcher GmbH & Co. KG

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**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; Irritant*

*R38-41: Irritating to skin. Risk of serious damage to eyes.*

**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.*

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



*Xi Irritant*

**Risk phrases:**

*38 Irritating to skin.*

*41 Risk of serious damage to eyes.*

**Safety phrases:**

*2 Keep out of the reach of children.*

*26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.*

*37/39 Wear suitable gloves and eye/face protection.*

*51 Use only in well-ventilated areas.*

*60 This material and its container must be disposed of as hazardous waste.*

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

**Dangerous components:**

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|   |   |      |
|---|---|------|
| CAS: 111-76-2<br>EINECS: 203-905-0<br>Index number: 603-014-00-0<br>Reg.nr.: 01-2119475108-36 | 2-butoxyethanol<br>☒ Xn R20/21/22; ☒ Xi R36/38<br>☠ Acute Tox. 4, H302; Acute Tox. 4, H312; Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319 | 5.0% |
| CAS: 69011-36-5<br>EC number: 931-138-8<br>Reg.nr.: 02-2119552461-55                          | isotridecanoethoxylate + 8 EO<br>☒ Xn R22; ☒ Xi R41<br>☠ Eye Dam. 1, H318; ☠ Acute Tox. 4, H302   | 1.8% |
| CAS: 15763-76-5<br>EINECS: 239-854-6<br>Reg.nr.: 01-2119489411-37                             | sodium p-cumenesulphonate<br>☒ Xi R36<br>☠ Eye Irrit. 2, H319   | 1.6% |
| CAS: 68411-31-4<br>EINECS: 270-116-6  | triethanolammonium C10C13-alkylbenzene sulfonate<br>☒ Xi R38-41<br>☠ Eye Dam. 1, H318; ☠ Skin Irrit. 2, H315  | 1.0% |
|   | aliphatic alcohols, C12-C18, mainly linear, ethoxylated, butoxylated<br>☒ Xi R36/38<br>☠ Skin Irrit. 2, H315; Eye Irrit. 2, H319                        | 1.0% |

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

non-ionic surfactants, anionic surfactants

&lt; 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

###### · After inhalation

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. Then consult a doctor.

###### · 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 Corneal damage

##### · 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

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.

##### · 5.2 Special hazards arising from the substance or mixture

No further relevant information available.

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- **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).
- **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 precautions are necessary if used correctly.
- **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:**

**111-76-2 2-butoxyethanol**

|        |   |
|--------|---|
| WEL () | Short-term value: 246 mg/m <sup>3</sup> , 50 ppm<br>Long-term value: 123 mg/m <sup>3</sup> , 25 ppm<br>Sk, BMGV |
|--------|---|

- **Ingredients with biological limit values:**

**111-76-2 2-butoxyethanol**

|         |   |
|---------|---|
| BMGV () | 240 mmol/mol creatinine<br>Medium: urine<br>Sampling time: post shift<br>Parameter: butoxyacetic acid |
|---------|---|

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- **8.2 Exposure controls**
- **Personal protective equipment**
- **General protective and hygienic measures**  
Keep away from foodstuffs, beverages and feed.  
Immediately remove all soiled and contaminated clothing  
Wash hands before breaks and at the end of work.  
Avoid contact with the skin.  
Avoid contact with the eyes and skin.
- **Respiratory protection:** 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.
- **For the permanent contact gloves made of the following materials are suitable:**  
\* butyl rubber 0,7 mm, 480 min
- **For the permanent contact of a maximum of 15 minutes gloves made of the following materials are suitable:**  
Nitrile rubber, NBR
- **Eye protection:**



Tightly sealed goggles.

**SECTION 9: Physical and chemical properties**

- **9.1 Information on basic physical and chemical properties**
- **General Information**
- **Appearance:**

|                           |                 |
|---------------------------|-----------------|
| · <b>Form:</b>            | Fluid           |
| · <b>Colour:</b>          | Blue            |
| · <b>Odour:</b>           | Fruit-like      |
| · <b>Odour threshold:</b> | Not determined. |
- **pH-value at 20 °C:** 12.2
- **pH-value 1 %:** 9,0

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|   |   |
|---|---|
| · <b>Change in condition</b>                      |   |
| Melting point/Melting range:                      | undetermined                                  |
| Boiling point/Boiling range:                      | 100 °C  |
| · <b>Flash point:</b>                             | Not applicable                                |
| · <b>Flammability (solid, gaseous)</b>            | Not applicable.                               |
| · <b>Ignition temperature:</b>                    |   |
| Decomposition temperature:                        | Not determined.                               |
| · <b>Self-igniting:</b>                           | Product is not selfigniting.                  |
| · <b>Danger of explosion:</b>                     | Product does not present an explosion hazard. |
| · <b>Explosion limits:</b>                        |   |
| Lower:  | Not determined.                               |
| Upper:  | Not determined.                               |
| · <b>Vapour pressure:</b>                         | Not determined.                               |
| · <b>Density at 20 °C:</b>                        | 1.026 g/cm <sup>3</sup>                       |
| · <b>Relative density</b>                         | Not determined.                               |
| · <b>Vapour density</b>                           | Not determined.                               |
| · <b>Evaporation rate</b>                         | Not determined.                               |
| · <b>Solubility in / Miscibility with</b>         |   |
| Water:  | Fully miscible                                |
| · <b>Partition coefficient (n-octanol/water):</b> | Not determined.                               |
| · <b>Viscosity:</b>                               |   |
| dynamic at 20 °C:                                 | 3 mPas  |
| kinematic:  | Not determined.                               |
| · <b>Solvent content:</b>                         |   |
| Organic solvents:                                 | 0.7 %   |
| Water:  | 86.3 %  |
| VOC (EC)  | 5.00 %  |
| Solids content:                                   | 13.0 %  |
| · <b>9.2 Other information</b>                    | 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.

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

**SECTION 11: Toxicological information**

· **11.1 Information on toxicological effects**

· **Acute toxicity:**

· **Primary irritant effect:**

· **on the skin:**

OECD 431

Irritant to skin and mucous membranes.

· **on the eye:**

OECD 437

Strong irritant with the danger of severe eye injury.

· **Sensitization:** No sensitizing effects known.

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

· **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:** 255.000 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.

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

Rinse off of bigger amounts into drains or the aquatic environment may lead to increased pH-values. A high pH-value harms aquatic organisms. In the dilution of the use-level the pH-value is considerably reduced, so that after the use of the product the aqueous waste, emptied into drains, is only low water-dangerous.

· **12.5 Results of PBT and vPvB assessment**

· **PBT:** Not applicable.

· **vPvB:** Not applicable.

· **12.6 Other adverse effects** No further relevant information available.

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**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.

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**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.

· **UN "Model Regulation":** -

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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**

H302 Harmful if swallowed.  
H312 Harmful in contact with skin.  
H315 Causes skin irritation.  
H318 Causes serious eye damage.  
H319 Causes serious eye irritation.  
H332 Harmful if inhaled.

R20/21/22 Harmful by inhalation, in contact with skin and if swallowed.

R22 Harmful if swallowed.  
R36 Irritating to eyes.  
R36/38 Irritating to eyes and skin.  
R38 Irritating to skin.  
R41 Risk of serious damage to eyes.

**· Department issuing MSDS: PDE-D**

**· Contact:**

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

· 0.011-938.0 / RM 69/16 / 1595

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