

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



Printing date 19.06.2008

Revision: 19.06.2008

1 Identification of substance:

· **Product details:**

- **Trade name:** **RM 69 ASF**
- **Application of the substance / the preparation** Floor cleaner
- **Manufacturer/Supplier:**

Alfred Kärcher GmbH & Co. KG
Alfred-Kärcher-Str. 28-40
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D - 71349 Winnenden

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· **Further information obtainable from:**

Department PDE-D
Tel.: +49-7195-14-2548
Fax : +49-7195-14-3391
safetydata@karcher.com

- **Information in case of emergency:** Tel.: +49-30-19240

2 Hazards identification

- **Hazard description:** not applicable
- **Information concerning to particular hazards to man 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.
- **GHS label elements**
- **Additional information:**
The product does not contain any organic halogen compounds (AOX), nitrates, heavy metal compounds.

3 Composition/information on ingredients

- **Chemical characterization**
- **Description:** Cleaning agent

· **Dangerous components:**

CAS: 111-76-2	2-butoxyethanol	5- < 10%
EINECS: 203-905-0	☒ Xn, ☒ Xi; R 20/21/22-36/38	
	Danger: ☒ 3.1.O/3, 3.1.D/3, 3.1.I/4, 3.2/2, 3.3/2A	

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CAS: 69011-36-5	isotridecanoethoxylate + 8 EO ☒ Xn, ☒ Xi; R 22-41 Danger: ⚠ 3.1.0/3; ⚠ 3.3/1	< 2.5%
CAS: 68411-31-4 EINECS: 270-116-6	triethanolammonium C10C13-alkylbenzene sulfonate, 50 % ☒ Xi; R 38-41 Danger: ⚠ 3.3/1, 3.2/2	< 2.5%
	aliphatic alcohols, C12-C18, mainly linear, ethoxylated, butoxylated ☒ Xi; R 36/38 Warning: ⚠ 3.2/2, 3.3/2A	< 2.5%

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

4 First aid measures

- **General information** 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.
Rinse with warm water.
- **After eye contact**
Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- **After swallowing**
If symptoms persist consult doctor.
Rinse out mouth and then drink plenty of water.

5 Fire fighting measures

- **Suitable extinguishing agents**
CO₂, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **Protective equipment:** No special measures required.

6 Accidental release measures

- **Person-related safety precautions:** Wear protective clothing.
- **Measures for environmental protection:**
Dilute with plenty of water.
Do not allow to penetrate the ground/soil.
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).
Ensure adequate ventilation.
- **Additional information:** No dangerous substances are released.

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7 Handling and storage

- **Handling**
- **Information 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.
- **Storage**
- **Requirements to be met by storerooms and receptacles:** No special requirements.
- **Information about storage in one common storage facility:** Do not store together with acids.
- **Further information about storage conditions:** None.
- **Storage class VCI storage class:** 12

8 Exposure controls and personal protection gear

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

- **Ingredients with limit values that require monitoring at the workplace:**

111-76-2 2-butoxyethanol

OEL	Short-term value: 246 mg/m ³ , 50 ppm
	Long-term value: 98 mg/m ³ , 20 ppm
	Sk, IOELV

- **Additional information:** The lists valid during the making were used as basis.
- **Personal protective equipment**
- **General protective and hygienic measures** Do not inhale gases / fumes / aerosols.
- **Respiratory protection:** Not necessary if room is well-ventilated.
- **Protection of hands:** * chemical resistant protective gloves (EN 374)
- **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.
- **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
- **As protection from splashes gloves made of the following materials are suitable:** * nitril rubber 0,4 mm, 30 min
- **Eye protection:** Goggles recommended during refilling.

9 Physical and chemical properties:

- **General Information**

Form:	Fluid
Colour:	Blue
Odour:	Characteristic

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· Change in condition <i>Melting point/Melting range: undetermined</i> <i>Boiling point/Boiling range: 100°C</i>	
· Flash point:	<i>Not applicable</i>
· Self-igniting:	<i>Product is not selfigniting.</i>
· Danger of explosion:	<i>Product does not present an explosion hazard.</i>
· Vapour pressure at 20°C:	<i>23 hPa</i>
· Density at 20°C:	<i>1.026 g/cm³</i>
· Solubility in / Miscibility with Water:	<i>Fully miscible</i>
· pH-value at 20°C:	<i>12.2</i> <i>1 % 9</i>
· Viscosity: <i>dynamic at 20°C:</i>	<i>3 mPas</i>
· Solvent content: <i>Organic solvents:</i> <i>Water:</i>	<i>0.7 %</i> <i>86.3 %</i>
· Solids content:	<i>13.0 %</i>

10 Stability and reactivity

- **Thermal decomposition / conditions to be avoided:** *No decomposition if used according to specifications.*
- **Dangerous reactions** *No dangerous reactions known*
- **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.*
- **Sensitization:** *No sensitizing effects known.*
- **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.

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12 Ecological information:

- **Information about elimination (persistence and degradability):**
- **Other information:** The product is biodegradable.
- **Additional ecological information:**
- **CSB-value:** 255.000 mg/l
- **General notes:**
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 Direction on liquid waste.
The product does not contain organically bounded halogens (AOX-free).
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.
Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water.
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

13 Disposal considerations

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

14 Transport information

- **Land transport ADR/RID (cross-border)**
- **ADR/RID class:** -
- **Maritime transport IMDG:**
- **IMDG Class:** -
- **Marine pollutant:** No
- **Air transport ICAO-TI and IATA-DGR:**
- **ICAO/IATA Class:** -
- **UN "Model Regulation":** -
- **Transport/Additional information:** Not dangerous according to the above specifications.

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15 Regulations

- **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.
 - **Safety phrases:**
23 Do not breathe fumes/aerosol.
51 Use only in well-ventilated areas.
 - **Special labelling of certain preparations:**
Safety data sheet available for professional user on request.
 - **National regulations**
 - **Technical instructions (air):**
- | Class | Share in % |
|-------|------------|
| NK | 5.0 |
- **Waterhazard class:** Water hazard class 1 (Self-assessment): slightly hazardous for water.

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 R-phrases**
20/21/22 Harmful by inhalation, in contact with skin and if swallowed.
22 Harmful if swallowed.
36/38 Irritating to eyes and skin.
38 Irritating to skin.
41 Risk of serious damage to eyes.
- **Department issuing MSDS:** Department PDE-D
- **Contact:** Frau Kuehner, Herr Kurz
- **Abbreviations and acronyms:**
ADR: Accord européen sur le transport des marchandises Dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
RID: Règlement internationale concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
IMDG: International Maritime Code for Dangerous Goods
IATA: International Air Transport Association
IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)
ICAO: International Civil Aviation Organization
ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO)
- *** Data compared to the previous version altered.**

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