

# Material Safety Data Sheet

According to 91/155 EEC

Printing date 27.09.2005

Reviewed on 27.09.2005

## 1 Identification of substance:

- **Product details:**

- **Trade name:** RM 69 ASF Basic cleaner alkaline, easy to separate
- **Application of the substance / the preparation:** Floor cleaner

- **Manufacturer/Supplier:**

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

Postfach 160  
71349 Winnenden  
Germany

Tel.: 0049-7195-14-0  
Fax : 0049-7195-14-2212

Internet: [www.karcher.com](http://www.karcher.com)

- **Further information obtainable from:**

Department PND-D  
Tel.: 0049-7195-14-2548  
Fax : 0049-7195-14-3164

- **Information in case of emergency:** Tel.: 0049-30-19240

## 2 Composition/Data on components:

- **Chemical characterization**

- **Description:**

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

- **Dangerous components:**

CAS: 5064-31-3 EINECS: 225-768-6	trisodium nitrilotriacetate  Xn; R 22-36	5-<10%
	fatty alcohol ethoxylate  Xn,  N; R 22-41-50	2.5-<5%
	triisobutyl phosphate  Xi; R 43	< 2.5%
CAS: 68411-31-4 EINECS: 270-116-6	triethanolammonium C10C13-alkylbenzene sulfonate, 50 %  Xi; R 38-41	< 2.5%

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

## 3 Hazard identification

- **Hazard description:**



Xi Irritant

- **Information concerning to particular hazards to man and environment**

R 36/38 Irritating to eyes and skin.  
R 43 May cause sensitisation by skin contact.

- **Classification system**

The classification is according to the latest editions of the EU-lists, and extended by company and literature data.

- **Additional information:**

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

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### 4 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.
- **After skin contact** Immediately wash with water and soap and rinse thoroughly.
- **After eye contact**  
Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- **After swallowing** Drink plenty of water and provide fresh air. Call for a doctor immediately.

### 5 Fire fighting measures

- **Suitable extinguishing agents**  
CO<sub>2</sub>, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **Protective equipment:** Mount respiratory protective device.

### 6 Accidental release measures

- **Person-related safety precautions:** Wear protective equipment. Keep unprotected persons away.
- **Measures for environmental protection:**  
Prevent seepage into sewage system, workpits and cellars.  
Dilute with plenty of water.  
Do not allow to penetrate the ground/soil.
- **Measures for cleaning/collecting:**  
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders).  
Ensure adequate ventilation.

### 7 Handling and storage

- **Handling**
- **Information for safe handling:**  
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:** Store only in the original receptacle.
- **Information about storage in one common storage facility:** Do not store together with acids.
- **Further information about storage conditions:** Keep receptacle tightly sealed.
- **Storage class** VCI-storage class: 8B - not flammable corrosive substances

### 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:**  
The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
- **Additional information:** The lists valid during the making were used as basis.
- **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 eyes and skin.
- **Respiratory protection:**  
Use suitable respiratory protective device in case of insufficient ventilation.  
Filter A/P2.  
Not necessary if room is well-ventilated.

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- **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:** Tightly sealed goggles.

### 9 Physical and chemical properties:

#### · General Information

<b>Form:</b>	Fluid
<b>Colour:</b>	Blue
<b>Odour:</b>	Characteristic

#### · Change in condition

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

· **Flash point:** Not applicable

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

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

· **Vapour pressure at 20°C:** 23.0 hPa

· **Density at 20°C:** 1.05 g/cm<sup>3</sup>

#### · Solubility in / Miscibility with

**Water:** Fully miscible

· **pH-value at 20°C:** 12  
1 % 8

#### · Viscosity:

**dynamic at 20°C:** 6 mPas

#### · Solvent content:

**Organic solvents:** 0.0 %  
**Water:** 83.0 %

· **Solids content:** 16.0 %

### 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:** Irritant to skin and mucous membranes.
- **on the eye:** Irritating effect.
- **Sensitization:** Sensitization possible through skin contact.

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· **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

### 12 Ecological information:

· **Information about elimination (persistence and degradability):**

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

· **Ecotoxicological effects:**

· **Other information:**

COD value (solution in tap water 20 °d):

219 mg/l (0,1 %)

· **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 product does not contain organically bounded halogens (AOX-free).

Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water.

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

Danger to drinking water if even small quantities leak into the ground.

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.

### 13 Disposal considerations

· **Product:**

· **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
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· **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:** 8 Corrosive substances.

· **Danger code (Kemler):** 80

· **UN-Number:** 1760

· **Packaging group:** III

· **Hazard label** 8

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· **Description of goods:** 1760 CORROSIVE LIQUID, N.O.S. (trisodium nitrilotriacetate)

· **Maritime transport IMDG:**



- **IMDG Class:** 8
- **UN Number:** 1760
- **Label** 8
- **Packaging group:** III
- **EMS Number:** F-A,S-B
- **Marine pollutant:** No
- **Proper shipping name:** CORROSIVE LIQUID, N.O.S. (trisodium nitrilotriacetate)

· **Air transport ICAO-TI and IATA-DGR:**



- **ICAO/IATA Class:** 8
- **UN/ID Number:** 1760
- **Label** 8
- **Packaging group:** III
- **Proper shipping name:** CORROSIVE LIQUID, N.O.S. (trisodium nitrilotriacetate)

### 15 Regulations

· **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

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

triisobutyl phosphate

· **Risk phrases:**

- 36/38 Irritating to eyes and skin.
- 43 May cause sensitisation by skin contact.

· **Safety phrases:**

- 2 Keep out of the reach of children.
- 23 Do not breathe aerosol.
- 24 Avoid contact with skin.
- 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
- 28 After contact with skin, wash immediately with plenty of water.
- 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.

· **National regulations**

· **Information about limitation of use:** Employment restrictions concerning juveniles must be observed.

· **Waterhazard class:** Water hazard class 2 (Self-assessment): 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.

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

· **Relevant R-phrases**

22 Harmful if swallowed.

36 Irritating to eyes.

38 Irritating to skin.

41 Risk of serious damage to eyes.

43 May cause sensitisation by skin contact.

50 Very toxic to aquatic organisms.

· **Department issuing MSDS:** Department PND-D

· **Contact:**

Frau Fiess, Frau Kühner

0.011-812 D 69/11

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