

1 Identification of substance:

· **Product details:**

- **Trade name:** *RM 58 ASF*
- **Application of the substance / the preparation** Alkaline cleaner/ detergent

· **Manufacturer/Supplier:**

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

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Internet: www.karcher.com

· **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:**



C Corrosive

· **Information concerning to particular hazards to man 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.

R 34 Causes burns.

· **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.

3 Composition/information on ingredients

· **Chemical characterization**

· **Description:**

Cleaning agent

Mixture consisting of the following components.

· **Dangerous components:**

	fatty alcohol C8-C10 glycoside CAS 68515-73-1, aqueous ☒ Xi; R 41	5- < 10%
CAS: 68891-38-3	sodium lauryl ether sulfate ☒ Xi; R 36/38	5- < 10%
CAS: 1310-73-2 EINECS: 215-185-5	sodium hydroxide ☒ C; R 35	2,5- < 5%
CAS: 61827-42-7	alkyl-C10-polyethyleneglycolether + 8 EO ☒ Xn, ☒ Xi; R 22-41	< 2,5%

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

4 First aid measures

- **General information** Immediately remove any clothing soiled by the product.
- **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.
Drink plenty of water and provide fresh air. Call for a doctor immediately.

5 Fire fighting measures

- **Suitable extinguishing agents** CO₂, powder or water spray. Fight larger fires with water spray.
- **Protective equipment:** Wear fully protective suit.

6 Accidental release measures

- **Person-related safety precautions:** Wear protective equipment. Keep unprotected persons away.
- **Measures for environmental protection:**
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).
Use neutralizing agent.
Dispose contaminated material as waste according to item 13.
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.
Protect from frost.
- **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.

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- **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.
 Do not inhale gases / fumes / aerosols.
 Avoid contact with the eyes and skin.
- **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:** * 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.
- **Body protection:** Alkaline resistant protective clothing

9 Physical and chemical properties:

· General Information

Form:	Fluid
Colour:	Yellow
Odour:	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 hPa

· **Density at 20°C:** 1,064 g/cm³

· Solubility in / Miscibility with

Water: Not miscible or difficult to mix

· **pH-value at 20°C:** 13,1
1 % 12

· Viscosity:

dynamic at 20°C: 13 mPas

· Solvent content:

Organic solvents:	0,0 %
Water:	76,9 %

· **Solids content:** 19,7 %

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10 Stability and reactivity

- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **Dangerous reactions**
 - Corrosive action on metals
 - Reacts with light alloys to form hydrogen
 - Reacts with strong acids
- **Dangerous decomposition products:** No dangerous decomposition products known

11 Toxicological information

- **Acute toxicity:**

- **LD/LC50 values relevant for classification:**

1310-73-2 sodium hydroxide

Oral	LD50	2000 mg/kg (rat)
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- **Primary irritant effect:**

- **on the skin:** Caustic effect on skin and mucous membranes.

- **on the eye:** Strong caustic effect.

- **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.

Corrosive

Swallowing will lead to a strong caustic effect on mouth and throat and to the danger of perforation of esophagus and stomach.

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):

350 mg/l 0,1 %

- **General notes:**

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

Must not reach sewage water or drainage ditch undiluted or unneutralized.

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.

The product does not contain organic complexing agents.

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**

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.

14 Transport information

· Land transport ADR/RID (cross-border)



- **ADR/RID class:** 8 (C5) Corrosive substances.
- **Danger code (Kemler):** 80
- **UN-Number:** 1824
- **Packaging group:** III
- **Hazard label** 8
- **Description of goods:** 1824 SODIUM HYDROXIDE SOLUTION

· Maritime transport IMDG:



- **IMDG Class:** 8
- **UN Number:** 1824
- **Label** 8
- **Packaging group:** III
- **EMS Number:** F-A,S-B
- **Marine pollutant:** No
- **Proper shipping name:** SODIUM HYDROXIDE SOLUTION

· Air transport ICAO-TI and IATA-DGR:



- **ICAO/IATA Class:** 8
- **UN/ID Number:** 1824
- **Label** 8
- **Packaging group:** III
- **Proper shipping name:** SODIUM HYDROXIDE SOLUTION

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:**
C Corrosive
- **Hazard-determining components of labelling:**
sodium hydroxide
- **Risk phrases:**
34 Causes burns.
- **Safety phrases:**
1/2 Keep locked up and out of the reach of children.
23 Do not breathe fumes/aerosol.

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- 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.*
- 36/37/39 *Wear suitable protective clothing, gloves and eye/face protection.*
- 45 *In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).*
- 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 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

- 22 *Harmful if swallowed.*
- 35 *Causes severe burns.*
- 36/38 *Irritating to eyes and skin.*
- 41 *Risk of serious damage to eyes.*

· Department issuing MSDS: *Department PDE-D***· Contact:***Frau Fiess, Frau Kühner*

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