

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

Printing date 06.12.2014

Version number 5

Revision: 17.11.2014

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

· **1.1 Product identifier**

· **Trade name:** *RM 803 ASF NTA-free*

· **1.2 Relevant identified uses of the substance or mixture and uses advised against**  
*No further relevant information available.*

· **Application of the substance / the mixture** *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*

*www.karcher.com  
Alfred Kärcher Ges.mbH  
Lichtblaustr. 7  
A - 1220 Wien  
Tel.: +43-1-25060-0  
Fax: +43-1-25060-333*

· **Further information obtainable from:**

*Department PDE-D  
Tel.: +49-7195-14-2398  
Fax : +49-7195-14-3164  
safetydata@karcher.com*

· **1.4 Emergency telephone number:** *Tel.: 0049 30 30686 790 Giftnotruf Berlin*

**SECTION 2: Hazards identification**

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

· **Classification according to Regulation (EC) No 1272/2008**

*Met. Corr.1 H290 May be corrosive to metals.*

*Skin Corr. 1C H314 Causes severe skin burns and eye damage.*

· **Classification according to Directive 67/548/EEC or Directive 1999/45/EC**

*C; Corrosive*

*R35: Causes severe burns.*

· **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.*

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- **2.2 Label elements**
- **Labelling according to Regulation (EC) No 1272/2008**  
The product is classified and labelled according to the CLP regulation.
- **Hazard pictograms**







GHS05

- **Signal word** *Danger*
- **Hazard-determining components of labelling:**  
*isotridecanoethoxylate + 8 EO*
- **Hazard statements**  
*H290 May be corrosive to metals.*  
*H314 Causes severe skin burns and eye damage.*
- **Precautionary statements**  
*P280 Wear protective gloves/protective clothing/eye protection/face protection.*  
*P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.*  
*P310 Immediately call a POISON CENTER/doctor.*  
*P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.*  
*P405 Store locked up.*  
*P501 Dispose of contents/container in accordance with local/regional/national/international regulations.*
- **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 characterisation: Mixtures**
- **Description:**  
*Mixture of substances listed below with non-hazardous additions.*  
*Cleaning agent*

· **Dangerous components:**

CAS: 69011-36-5	isotridecanoethoxylate + 8 EO	3,0-10%
EC number: 931-138-8	 Xn R22;  Xi R41	
Reg.nr.: 02-2119552461-55-XXXX	 Eye Dam. 1, H318;  Acute Tox. 4, H302	

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


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CAS: 15763-76-5 EINECS: 239-854-6 Reg.nr.: 01-2119489411-37-XXXX	sodium p-cumenesulphonate  Xi R36  Eye Irrit. 2, H319	3,0-10%
CAS: 68411-31-4 EINECS: 270-116-6 Reg.nr.: 01-2119971970-28-XXXX	triethanolammonium C10C13-alkylbenzene sulfonate  Xi R38-41  Eye Dam. 1, H318;  Skin Irrit. 2, H315	3,0-10%
CAS: 1310-73-2 EINECS: 215-185-5 Index number: 011-002-00-6 Reg.nr.: 02-2119752469-26-XXXX	sodium hydroxide  C R35  Skin Corr. 1A, H314	< 0,5%
<b>· Regulation (EC) No 648/2004 on detergents / Labelling for contents</b>		
non-ionic surfactants		5 - 15%
anionic surfactants		< 5%

**· Additional information**

Specific concentration limits available for isotridecanoethoxylate + 8 EO (CAS 69011-36-5) based on test reports (see Section 11).

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.

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.

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:** Wear self-contained respiratory protective device.

### **SECTION 6: Accidental release measures**

- **6.1 Personal precautions, protective equipment and emergency procedures**  
Wear protective equipment. Keep unprotected persons away.
- **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).  
Use neutralising agent.  
Dispose contaminated material as waste according to item 13.  
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**  
Keep receptacles tightly sealed.  
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:** Store only in the original receptacle.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:**  
Protect from frost.  
Store under lock and key and out of the reach of children.  
Keep receptacle tightly sealed.
- **Storage class VCI-storage class:** 8B - not flammable corrosive substances
- **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:**  
The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

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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.  
Do not inhale gases / fumes / aerosols.  
Avoid contact with the eyes and skin.

· **Respiratory protection:**

Short term filter device:  
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:**



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

· **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:**

Apron  
Boots

**SECTION 9: Physical and chemical properties**

· **9.1 Information on basic physical and chemical properties**

· **General Information**

· **Appearance:**

**Form:** Fluid

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· <b>Colour:</b>	Light yellow
· <b>Odour:</b>	Fruit-like
· <b>Odour threshold:</b>	Not determined.
· <b>pH-value at 20 °C:</b>	12,9
· <b>pH-value 1 %:</b>	10
· <b>Change in condition</b>	
<b>Melting point/Melting range:</b>	-7 °C
<b>Boiling point/Boiling range:</b>	100 °C
· <b>Flash point:</b>	> 100 °C
· <b>Flammability (solid, gaseous)</b>	Not applicable.
· <b>Ignition temperature:</b>	not applicable
· <b>Decomposition temperature:</b>	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>	
<b>Lower:</b>	Not determined.
<b>Upper:</b>	Not determined.
· <b>Vapour pressure:</b>	Not determined.
· <b>Density at 20 °C:</b>	1,118 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 Water:</b>	Fully miscible
· <b>Partition coefficient (n-octanol/water):</b>	Not determined.
· <b>Viscosity:</b>	
<b>dynamic at 20 °C:</b>	13,5 mPas
<b>kinematic:</b>	Not determined.
· <b>Solvent content:</b>	
<b>Organic solvents:</b>	0,0 %
<b>VOC (EC)</b>	0,00 %
<b>Solids content:</b>	27,6 %
· <b>9.2 Other information</b>	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.

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- **10.3 Possibility of hazardous reactions**  
Reacts with light alloys to form hydrogen  
Corrodes aluminium  
Reacts with acids
- **10.4 Conditions to avoid** No further relevant information available.
- **10.5 Incompatible materials:**  
Not compatible with alkali-sensitive substances like Sn, Zn, Al and paintings.
- **10.6 Hazardous decomposition products:** No dangerous decomposition products known

**SECTION 11: Toxicological information**

- **11.1 Information on toxicological effects**
- **Acute toxicity:**

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

**69011-36-5 isotridecanoethoxylate + 8 EO**

Oral	ATE	500 mg/kg (Rat)
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**15763-76-5 sodium p-cumenesulphonate**

Dermal	LD50	> 2000 mg/kg (can)
Inhalative	LC50	> 2000 mg/kg (Rat) (OECD 401)

**68411-31-4 triethanolammonium C10C13-alkylbenzene sulfonate**

Dermal	LD50	> 2000 mg/kg (can) (OECD 402)
Inhalative	LC50	> 2000 mg/kg (Rat) (OECD 401)

- **Primary irritant effect:**
- **on the skin:** Strong caustic effect on skin and mucous membranes.
- **on the eye:**  
Strong caustic effect.  
69011-36-5 isotridecanoethoxylate + 8 EO: specific concentration limit for H318: 10% (BCOP test, OECD 437)
- **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.

**SECTION 12: Ecological information**

- **12.1 Toxicity**
- **Aquatic toxicity:**  
Not applicable

**69011-36-5 isotridecanoethoxylate + 8 EO**

EC50/48 h	1 - 10 mg/l (Aquatic invertebrates)
EC50/72 h	1 - 10 mg/l (Aquatic plants)
LC50/96 h	1 - 10 mg/l (Leuciscus idus)

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**15763-76-5 sodium p-cumenesulphonate**

EC50/48 h	> 100 mg/l (Daphnia magna)
EC50/96 h	> 100 mg/l (Algae)
LC50	> 5 mg/l (Rat) (232 min)
LC50/96 h	> 100 mg/l (Oncorhynchus mykiss)

**1310-73-2 sodium hydroxide**

EC50/15 min	22 mg/l (Photobacterium phosphoreum)
EC50/48 h	76 mg/l (Daphnia magna)
LC50/96 h	125 mg/l (Gambusia affinis)

**· 12.2 Persistence and degradability**

**69011-36-5 isotridecanoethoxylate + 8 EO**

Bismuth-act. sup.  $\geq 90$  % (-) (mod. OECD 301 E)

- **12.3 Bioaccumulative potential** No further relevant information available.
- **12.4 Mobility in soil** No further relevant information available.

**· Additional ecological information:**

· **CSB-value:** 760000 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 Directive on liquid waste.

In compliance with the prescribed application parameters, the product does not lead to stable emulsions.

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 product to reach ground water, water course or sewage system.

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

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

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.

**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.

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· **European waste catalogue**

07 06 01\* aqueous washing liquids and mother liquors

· **Uncleaned packaging:**

· **Recommendation:**

Empty contaminated packagings thoroughly. They may be recycled after thorough and proper cleaning.

Non contaminated packagings may be recycled.

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

**SECTION 14: Transport information**

· **14.1 UN-Number**

· **ADR, IMDG, IATA**

UN1824

· **14.2 UN proper shipping name**

· **ADR**

1824 SODIUM HYDROXIDE SOLUTION

· **IMDG, IATA**

SODIUM HYDROXIDE SOLUTION

· **14.3 Transport hazard class(es)**

· **ADR**



· **Class**

8 (C5) Corrosive substances.

· **Label**

8

· **IMDG, IATA**



· **Class**

8 Corrosive substances.

· **Label**

8

· **14.4 Packing group**

· **ADR, IMDG, IATA**

III

· **14.5 Environmental hazards:**

· **Marine pollutant:**

No

· **14.6 Special precautions for user**

Warning: Corrosive substances.

· **Danger code (Kemler):**

80

· **EMS Number:**

F-A,S-B

· **Segregation groups**

Alkalis

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· <b>14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</b>	Not applicable.
· <b>Transport/Additional information:</b>	
· <b>ADR</b>	
· <b>Limited quantities (LQ)</b>	5L
· <b>Excepted quantities (EQ)</b>	Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
· <b>Transport category</b>	3
· <b>Tunnel restriction code</b>	E
· <b>IMDG</b>	
· <b>Limited quantities (LQ)</b>	5L
· <b>Excepted quantities (EQ)</b>	Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
· <b>UN "Model Regulation":</b>	UN1824, SODIUM HYDROXIDE SOLUTION, 8, III

### **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.

### **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.  
H314 Causes severe skin burns and eye damage.  
H315 Causes skin irritation.  
H318 Causes serious eye damage.  
H319 Causes serious eye irritation.
- **R22 Harmful if swallowed.**
- **R35 Causes severe burns.**
- **R36 Irritating to eyes.**
- **R38 Irritating to skin.**

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*R41 Risk of serious damage to eyes.*

· **Department issuing MSDS: PDE-D**

· **Contact:**

Department PDE-D

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· **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)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

ELINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

VOC: Volatile Organic Compounds (USA, EU)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

Met. Corr.1: Corrosive to metals, Hazard Category 1

Acute Tox. 4: Acute toxicity, Hazard Category 4

Skin Corr. 1A: Skin corrosion/irritation, Hazard Category 1A

Skin Corr. 1C: Skin corrosion/irritation, Hazard Category 1C

Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2

Eye Dam. 1: Serious eye damage/eye irritation, Hazard Category 1

Eye Irrit. 2: Serious eye damage/eye irritation, Hazard Category 2

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

· 0.011-346.0

RM 803/14.1

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