

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

Printing date 20.12.2014

Version number 2

Revision: 27.09.2013

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

· **1.1 Product identifier**

· **Trade name:** **RM 806 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)

SU3 Industrial uses: Uses of substances as such or in preparations at industrial sites

· **Process category PROC11** Non industrial spraying

· **Environmental release category**

ERC8d Wide dispersive outdoor use of processing aids in open systems

ERC8a Wide dispersive indoor use of processing aids in open systems

· **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

· **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 Directive 67/548/EEC or Directive 1999/45/EC**

C; Corrosive

R34: Causes burns.

Xn; Harmful

R40: Limited evidence of a carcinogenic effect.

· **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.

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· **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:**



C Corrosive

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

nitrilotriacetate, trisodium salt
sodium hydroxide

· **Risk phrases:**

34 Causes burns.
40 Limited evidence of a carcinogenic effect.

· **Safety phrases:**

20 When using do not eat or drink.
23 Do not breathe vapour/spray.
26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
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.

· **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:**

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

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· Dangerous components:		
CAS: 5064-31-3 EINECS: 225-768-6 Index number: 607-620-00-6 Reg.nr.: 01-2119519239-36-XXXX	nitrioltriacetate, trisodium salt ☒ Xn R22-40; ☒ Xi R36 Carc. Cat. 3 ☒ Carc. 2, H351; ☒ Acute Tox. 4, H302; Eye Irrit. 2, H319	10-25%
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: 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	2-5%
CAS: 61827-42-7 Reg.nr.: 02-2119549526-31-XXXX	alkyl-C10-polyethyleneglycolether + 8 EO ☒ Xn R22; ☒ Xi R41 ☒ Eye Dam. 1, H318; ☒ Acute Tox. 4, H302	< 3,0%
CAS: 69011-36-5 EC number: 931-138-8 Reg.nr.: 02-2119552461-55-XXXX	isotridecanoethoxylate + 8 EO ☒ Xn R22; ☒ Xi R41 ☒ Eye Dam. 1, H318; ☒ Acute Tox. 4, H302	< 3,0%
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%

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

TRISODIUM NTA	5 - 15%
non-ionic surfactants, anionic surfactants, polycarboxylates	< 5%

· Additional information

Specific concentration limits available for alkyl-C10-polyethyleneglycolether + 8 EO (CAS 61827-42-7) 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 No data

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- **Hazards** No further relevant information available.
- **4.3 Indication of any immediate medical attention and special treatment needed**
No data
No further relevant information available.

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SECTION 5: Firefighting measures

- **5.1 Extinguishing media**
- **Suitable extinguishing agents**
CO₂, 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**
Nitrogen oxides (NO_x)
Carbon monoxide (CO)
Carbon dioxide (CO₂)
- **5.3 Advice for firefighters**
- **Protective equipment:** Wear fully protective suit.

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SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures**
Ensure adequate ventilation
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:**
weak acid solution
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.

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SECTION 7: Handling and storage

- **7.1 Precautions for safe handling**
Store in cool, dry place in tightly closed receptacles.
Use only in well ventilated areas.
Avoid splashes or spray in enclosed areas.
Ensure good ventilation/exhaustion at the workplace.
Prevent formation of aerosols.
- **Information about fire - and explosion protection:** The product is not flammable

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- **7.2 Conditions for safe storage, including any incompatibilities**
- **Storage**
- **Requirements to be met by storerooms and receptacles:**
Store only in the original receptacle.
Unsuitable material for receptacle: aluminium.
- **Information about storage in one common storage facility:**
Keep away from food, beverages and feed.
- **Further information about storage conditions:**
Store under lock and key and out of the reach of children.
Protect from frost.
Storage in a collecting room is required.
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.

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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.
- **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:**
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)
Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.
The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

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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 trough time has to be found out by the manufacturer of the protective gloves and has to be observed.

· **For the permanent contact in work areas without heightened risk of injury (e.g. Laboratory) gloves made of the following material are suitable:**

* butyl rubber 0,7 mm, 480 min

· **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:**

Butyl rubber, BR

· **As protection from splashes gloves made of the following materials are suitable:**

* nitril rubber 0,4 mm, 30 min

· **Not suitable are gloves made of the following materials: Strong material gloves**

· **Eye protection:**



Tightly sealed goggles.

· **Body protection:** Protective work clothing.

· **Limitation and supervision of exposure into the environment**

No further relevant information available.

· **Risk management measures** No further relevant information available.

SECTION 9: Physical and chemical properties

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

· **General Information**

· **Appearance:**

Form:	Fluid
Colour:	Yellow
Odour:	Characteristic
Odour threshold:	Not determined.

· **pH-value at 20 °C:** 13,5

· **pH-value 1 %:** 12

· **Change in condition**

Melting point/Melting range: -7 °C

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Boiling point/Boiling range:	100 °C
· Flash point:	> 100 °C
· Flammability (solid, gaseous)	Not applicable.
· Ignition temperature:	not applicable
· Decomposition temperature:	100 °C
· Self-igniting:	Product is not selfigniting.
· Danger of explosion:	Product does not present an explosion hazard.
· Explosion limits:	
Lower:	Not determined.
Upper:	Not determined.
· Oxidising properties	no
· Vapour pressure at 20 °C:	0,1 hPa
· Density at 20 °C:	1,133 g/cm ³
· Relative density	Not determined.
· Vapour density	Not determined.
· Evaporation rate	Not determined.
· Solubility in / Miscibility with Water:	Fully miscible
· Partition coefficient (n-octanol/water):	Not determined.
· Viscosity:	
dynamic at 20 °C:	6 mPas
kinematic:	Not determined.
· Solvent content:	
Organic solvents:	0,0 %
VOC (EC)	0,00 %
Solids content:	24,6 %
· 9.2 Other information	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**
Strong exothermic reaction with acids
Reacts with light alloys to form hydrogen
Corrodes aluminium
- **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.

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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:**

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

5064-31-3 nitrilotriacetate, trisodium salt

Dermal	LD50	> 10000 mg/kg (can)
Inhalative	LC50	1000-2000 mg/kg (Rat)
	LC50/4 h	> 5 mg/l (Rat)

15763-76-5 sodium p-cumenesulphonate

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

61827-42-7 alkyl-C10-polyethyleneglycolether + 8 EO

Oral	ATE	500 mg/kg (Rat)
Dermal	LD50	>4000 mg/kg (Rat)

69011-36-5 isotridecanoethoxylate + 8 EO

Oral	ATE	500 mg/kg (Rat)
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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.

CAS 61827-42-7 alkyl-C10-polyethyleneglycolether + 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.

Harmful

Corrosive

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

· **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**

Limited evidence of a carcinogenic effect.

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SECTION 12: Ecological information

· 12.1 Toxicity

· Aquatic toxicity:

5064-31-3 nitrilotriacetate, trisodium salt

LC50/96 h > 100 mg/l (*Pimephales promelas*) (APHA 1971)

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*)

61827-42-7 alkyl-C10-polyethyleneglycolether + 8 EO

EC50/48 h 10 - 100 mg/l (Aquatic invertebrates)

EC50/72 h 10 - 100 mg/l (Aquatic plants)

LC50/96 h 10 - 100 mg/l (*Leuciscus idus*)

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*)

· 12.2 Persistence and degradability

The single components are biodegradable

The surfactants contained in the product correspond to the legislation on the environmental compatibility of detergents and are biodegradable.

69011-36-5 isotridecanoethoxylate + 8 EO

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

· Other information: The product is biodegradable.

· 12.3 Bioaccumulative potential

Due to the distribution coefficient n-octanol/water a worth-mentioning accumulation in organisms is not expected.

· 12.4 Mobility in soil No further relevant information available.

· Additional ecological information:

· CSB-value: 234000 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,

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at their direct request or at the request of a detergent manufacturer.

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

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.

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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
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· **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.

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SECTION 14: Transport information

· **14.1 UN-Number**

· **ADR, IMDG, IATA**

UN1824

· **14.2 UN proper shipping name**

· **ADR**

· **IMDG, IATA**

1824 SODIUM HYDROXIDE SOLUTION

SODIUM HYDROXIDE SOLUTION

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· 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

· Danger code (Kemler): Warning: Corrosive substances.
80
· EMS Number: F-A,S-B
· Segregation groups Alkalis

· 14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Not applicable.

· Transport/Additional information:

· ADR

· Limited quantities (LQ) 5L
· Excepted quantities (EQ) Code: E1
Maximum net quantity per inner packaging: 30 ml
Maximum net quantity per outer packaging: 1000 ml
· Transport category 3
· Tunnel restriction code E

· IMDG

· Limited quantities (LQ) 5L
· Excepted quantities (EQ) Code: E1
Maximum net quantity per inner packaging: 30 ml
Maximum net quantity per outer packaging: 1000 ml

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- **IATA**
- **Remarks:**

Product ist corrosive to aluminium

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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.
H314 Causes severe skin burns and eye damage.
H315 Causes skin irritation.
H318 Causes serious eye damage.
H319 Causes serious eye irritation.
H351 Suspected of causing cancer.
- *R22 Harmful if swallowed.*
R35 Causes severe burns.
R36 Irritating to eyes.
R38 Irritating to skin.
R40 Limited evidence of a carcinogenic effect.
R41 Risk of serious damage to eyes.
- **Department issuing MSDS: PDE-D**
- **Contact:**
Department PDE-D
Tel.: +49-7195-14-2398
Fax : +49-7195-14-3164
safetydata@karcher.com
- *** Data compared to the previous version altered.**
- *0.011-919.0 / RM 806/7 / 1.382*