Safety Data Sheet
according to WHS Regulations

Printing date 18.03.2022 Version number 4 Revision: 13.10.2016

*
1 Identification

· **Product identifier**

· **Trade name: RM 806 ASF**

· **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
· **Uses advised against** –

· **Details of the supplier of the safety data sheet**
· **Manufacturer/Supplier:**

Alfred Kärcher SE & Co. KG
Alfred-Kärcher-Str. 28-40
D - 71364 Winnenden
Tel.: +49-7195-14-0

Kärcher Pty. Ltd.
385 Ferntree Gully Rd
Mount Waverley, Victoria 3149
Victoria
Ph.: +61-3-9765-2300

Internet: www.karcher.com
· **Distributor:**
Kärcher Pty. Ltd.
385 Ferntree Gully Rd
Mount Waverley, Victoria 3149
Victoria
Ph.: +61-3-9765-2300
www.karcher.com.au
· **Email competent person:** productsafety.management@de.kaercher.com

· **Further information obtainable from:**

Department CSD-D
Tel.: +49-7195-14-0
productsafety.management@de.kaercher.com

· **Emergency telephone number:**

For Hazardous Materials [or Dangerous Goods] Incidents
Spill, Leak, Fire, Exposure, or Accident
Call CHEMTREC Day or Night
Within USA and Canada: 1-800-424-9300
Outside USA and Canada: +1 703-741-5970 (collect calls accepted)

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2 Hazard(s) Identification

· **Classification of the substance or mixture**
Met. Corr.1 H290 May be corrosive to metals.

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Skin Corr. 1B H314 Causes severe skin burns and eye damage.
Eye Dam. 1 H318 Causes serious eye damage.
Carc. 2 H351 Suspected of causing cancer.

· **Label elements**
· **GHS label elements**
The product is classified and labelled according to the Globally Harmonised System (GHS).
· **Hazard pictograms**
Corrosion
Health hazard

GHS05 GHS08

· **Signal word** Danger

· **Hazard-determining components of labelling:**
nitrilotriacetate, trisodium salt
sodium hydroxide
· **Hazard statements**
H290 May be corrosive to metals.
H314 Causes severe skin burns and eye damage.
H351 Suspected of causing cancer.
· **Precautionary statements**
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].
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.
P405 Store locked up.
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

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

3 Composition and Information on Ingredients

· **Chemical characterisation: Mixtures**
· **Description:** Cleaning agent

· **Dangerous components:**

5064-31-3	nitrilotriacetate, trisodium salt Carc. 2, H351; Acute Tox. 4, H302; Eye Irrit. 2A, H319	10-<25%

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15763-76-5	sodium p-cumenesulphonate Eye Irrit. 2A, H319	3-<10%
1310-73-2	sodium hydroxide Met. Corr.1, H290; Skin Corr. 1A, H314	2-<5%
61827-42-7	alkyl-C10-polyethyleneglycolether + 8 EO Eye Dam. 1, H318; Acute Tox. 4, H302; Skin Irrit. 2, H315	0.1-<3%
69011-36-5	isotridecanolethoxylate + 8 EO Eye Dam. 1, H318; Acute Tox. 4, H302	0.1-<3%

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

4 First Aid Measures

· **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.
Do not induce vomiting; call for medical help immediately.
Drink plenty of water and provide fresh air. Call for a doctor immediately.
· **Information for doctor**

· **Most important symptoms and effects, both acute and delayed** No data
· **Hazards** No further relevant information available.

· **Indication of any immediate medical attention and special treatment needed**
No further relevant information available.

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5 Fire Fighting Measures

· **Extinguishing media**
· **Suitable extinguishing agents**
CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

· **Special hazards arising from the substance or mixture**
Nitrogen oxides (NOx)
Carbon monoxide (CO)
Carbon dioxide (CO2)

· **Advice for firefighters**
· **Hazchem Code:** 2R

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· **Protective equipment:** Wear fully protective suit.
· **Additional information**
Collect contaminated fire fighting water separately. It must not enter the sewage system.

6 Accidental Release Measures

· **Personal precautions, protective equipment and emergency procedures**
Ensure adequate ventilation
Wear protective equipment. Keep unprotected persons away.

· **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.

· **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.

· **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.

7 Handling and Storage

· **Handling**
· **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.
Avoid contact with eyes and skin.
· **Information about fire - and explosion protection:** The product is not flammable

· **Conditions for safe storage, including any incompatibilities**
· **Storage**
· **Requirements to be met by storerooms and receptacles:**
Unsuitable material for receptacle: aluminium.
Store only in the original receptacle.
· **Information about storage in one common storage facility:**
Do not store together with acids.
Keep away from food, beverages and feed.

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· **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.

· **Specific end use(s)** No further relevant information available.

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8 Exposure controls and personal protection

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

· **Control parameters**

· **Ingredients with limit values that require monitoring at the workplace:**	
1310-73-2 sodium hydroxide	
WES	Peak limitation: 2 mg/m³

· **DNELs**		
15763-76-5 sodium p-cumenesulphonate		
Oral	DNEL	3.8 mg/kg*d (consumer)
Dermal	DNEL	136.25 mg/kg*d (employee)
		68.1 mg/kg*d (consumer)
Inhalative	DNEL	26.9 mg/m3 (employee)
		6.6 mg/m3 (consumer)
1310-73-2 sodium hydroxide		
Inhalative	DNEL	1 mg/m3 (employee)
		1 mg/m3 (consumer)

· **PNECs**	
15763-76-5 sodium p-cumenesulphonate	
PNEC	0.23 mg/l (freshwater)
	0.023 mg/l (marine water)
	100 mg/l (STP)
PNEC sediment	0.862 mg/kg (freshwater)
	0.086 mg/kg (marine water)
PNEC soil	0.037 mg/kg (soil)

· **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.

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· **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


Protective gloves.

· **Material of gloves** Butyl rubber, BR
· **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 (EN 374)
· **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 (EN 374)
· **Not suitable are gloves made of the following materials:** Strong material gloves
· **Eye protection:**


Tightly sealed goggles (EN 166)

· **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.

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9 Physical and Chemical Properties

· **Information on basic physical and chemical properties**
· **General Information**
· **Appearance:**

Form:	Fluid
Colour:	Yellow

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· **Odour:**	citrus-like
· **Odour threshold:**	Not determined.
· **pH-value at 20 °C:**	13.5
· **pH-value 1 %:**	12
· **Change in condition**	
Melting point/freezing point:	-7 °C
Initial boiling point and boiling range:	100 °C
· **Flash point:**	Not applicable
· **Flammability (solid, gaseous)**	Not applicable.
· **Ignition temperature:**	not applicable
· **Decomposition temperature:**	100 °C
· **Auto-ignition temperature:**	Product is not selfigniting.
· **Explosive properties:**	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/cm³
· **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:**	
Solids content:	24.6 %
· **Other information**	No further relevant information available.

10 Stability and Reactivity

· **Reactivity** corresponds to 10.3

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· **Chemical stability**
· **Thermal decomposition / conditions to be avoided:**
No decomposition if used according to specifications.

· **Possibility of hazardous reactions**
Strong exothermic reaction with acids
Reacts with light alloys to form hydrogen
Corrodes aluminium

· **Conditions to avoid** No further relevant information available.

· **Incompatible materials:** Not compatible with alkali-sensitive substances like Sn, Zn, Al and paintings.

· **Hazardous decomposition products:** No dangerous decomposition products known

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11 Toxicological Information

· **Information on toxicological effects**
· **Acute toxicity**

· **LD/LC50 values relevant for classification:**		
5064-31-3 nitrilotriacetate, trisodium salt		
Oral	LD50	1,470 mg/kg (Rat)
Dermal	LD50	>10,000 mg/kg (Rabbit)
15763-76-5 sodium p-cumenesulphonate		
Oral	LD50	>5,000 mg/kg (Rat) (OECD 401)
Dermal	LD50	>2,000 mg/kg (Rabbit)
61827-42-7 alkyl-C10-polyethyleneglycolether + 8 EO		
Oral	ATE	500 mg/kg (Rat)
Dermal	LD50	>4,000 mg/kg (Rat)
69011-36-5 isotridecanolethoxylate + 8 EO		
Oral	ATE	500 mg/kg (Rat)

· **Primary irritant effect:**
· **Skin corrosion/irritation**
Strong caustic effect on skin and mucous membranes.
Caustic effect on skin and mucous membranes.
· **Serious eye damage/irritation**
Strong caustic effect.
Strong irritant with the danger of severe eye injury.
· **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.

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· **CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)**
Limited evidence of a carcinogenic effect.
Carc. 2

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12 Ecological Information

· **Toxicity**

· **Aquatic toxicity:**	
15763-76-5 sodium p-cumenesulphonate	
LC50/96 h (static)	>100 mg/l (Oncorhynchus mykiss)
EC50/48 h (static)	>100 mg/l (Daphnia magna)
EC50/96 h (static)	>100 mg/l (Pseudokirchneriella subcapitata)
1310-73-2 sodium hydroxide	
LC50/96 h	125 mg/l (Gambusia affinis)
EC50/48 h	76 mg/l (Daphnia magna)
	40.4 mg/l (Ceriodaphnia dubia)
EC50/15 min	22 mg/l (Photobacterium phosphoreum)
61827-42-7 alkyl-C10-polyethyleneglycolether + 8 EO	
LC50/96 h	10-100 mg/l (Leuciscus idus)
EC50/48 h	10-100 mg/l (Aquatic invertebrates)
EC50/72 h	10-100 mg/l (Aquatic plants)
69011-36-5 isotridecanolethoxylate + 8 EO	
LC50/96 h	1-10 mg/l (Leuciscus idus)
EC50/48 h	1-10 mg/l (Aquatic invertebrates)
EC50/72 h	1-10 mg/l (Aquatic plants)

· **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 isotridecanolethoxylate + 8 EO	
Bismuth-act. sup.	≥90 % (mod. OECD 301 E)

· **Other information:** The product is biodegradable.
· **Behaviour in environmental systems:**

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

· **Mobility in soil** No further relevant information available.
· **Additional ecological information:**
· **COD-value:** 234000 mg/l

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· **General notes:**

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.

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

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 liqid waste.

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.

· **Results of PBT and vPvB assessment**
· **PBT:** Not applicable.
· **vPvB:** Not applicable.

· **Other adverse effects** No further relevant information available.

13 Disposal considerations

· **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.

· **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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14 Transport information

· **UN-Number**	
· **ADG, IMDG, IATA**	UN1824
· **UN proper shipping name**	
· **ADG**	1824 SODIUM HYDROXIDE SOLUTION
· **IMDG, IATA**	SODIUM HYDROXIDE SOLUTION
· **Transport hazard class(es)**	
· **ADG**	

· **Class**	8 (C5) Corrosive substances.
· **Label**	8
· **IMDG, IATA**	

· **Class**	8 Corrosive substances.
· **Label**	8
· **Packing group**	
· **ADG, IMDG, IATA**	III
· **Environmental hazards:**	
· **Marine pollutant:**	No
· **Special precautions for user**	Warning: Corrosive substances.
· **Hazard identification number (Kemler code):**	80
· **Hazchem Code:**	2R
· **EMS Number:**	F-A,S-B
· **Segregation groups**	Alkalis
· **Stowage Category**	A
· **Segregation Code**	SG35 Stow "separated from" SGG1-acids
· **Transport in bulk according to Annex II of Marpol and the IBC Code**	Not applicable.
· **Transport/Additional information:**	
· **ADG**	
· **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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· **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
· **IATA**	
· **Remarks:**	Product ist corrosive to aluminium
· **UN "Model Regulation":**	UN 1824 SODIUM HYDROXIDE SOLUTION, 8, III

15 Regulatory information

· **Safety, health and environmental regulations/legislation specific for the substance or mixture**

· **Australian Inventory of Industrial Chemicals**	
5064-31-3	nitrilotriacetate, trisodium salt
1310-73-2	sodium hydroxide
69011-36-5	isotridecanolethoxylate + 8 EO
68411-31-4	triethanolammonium C10C13-alkylbenzene sulfonate
68515-73-1	alkyl polyglucoside
115-95-7	linalyl acetate
18479-58-8	Dihydromyrcenol
8000-41-7	Terpineol
78-69-3	tetrahydrolinalool
74338-72-0	2,4,4,7-tetramethyl-6-octen-3-one
61792-11-8	3,7-Dimethyl-2,6-nonadienenitrile
105-95-3	Ethylene brassylate
587-98-4	sodium 3-(p-anilinophenylazo)benzenesulphonate
78-70-6	Linalool
106-24-1	geraniol

· **Standard for the Uniform Scheduling of Medicines and Poisons**		
5064-31-3	nitrilotriacetate, trisodium salt	S6
1310-73-2	sodium hydroxide	S5, S6, S10

· **National regulations**

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

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· **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

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**
H290 May be corrosive to metals.
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.

· **Department issuing SDS:** CSD-D
· **Contact:**
Department CSD-D
Tel.: +49-7195-14-0
productsafety.management@de.kaercher.com
· **Abbreviations and acronyms:**
ADR: Accord relatif au transport international 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
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
DNEL: Derived No-Effect Level (REACH)
PNEC: Predicted No-Effect Concentration (REACH)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative
Met. Corr.1: Corrosive to metals – Category 1
Acute Tox. 4: Acute toxicity – Category 4
Skin Corr. 1A: Skin corrosion/irritation – Category 1A
Skin Corr. 1B: Skin corrosion/irritation – Category 1B
Skin Irrit. 2: Skin corrosion/irritation – Category 2
Eye Dam. 1: Serious eye damage/eye irritation – Category 1
Eye Irrit. 2A: Serious eye damage/eye irritation – Category 2A
Carc. 2: Carcinogenicity – Category 2
· *** Data compared to the previous version altered.**

· 0·011-128·0 RM 806/12·1 1·914