

Safety Data Sheet
according to WHS Regulations

Date of issue: 07.11.2025

Version number 7

Revision: 05.11.2025

1 Identification

- **Other means of identification**
- **Trade name:** VehiclePro Foam Cleaner RM 838
- **Relevant identified uses of the substance or mixture and uses advised against**
Restricted to professional users.
- **Application of the substance / the mixture** Detergent
- **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:**

Regulatory Affairs
Tel.: +49-7195-14-0
productsafety.management.de@karcher.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: +1-703-527-3887 (collect calls accepted)

2 Hazard(s) Identification

- **Classification of the substance or mixture**
Corrosive to metals – Category 1 H290 May be corrosive to metals.
Skin corrosion/irritation – Category 1B H314 Causes severe skin burns and eye damage.

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Eye damage/irritation – Category 1 H318 Causes serious eye damage.

· Label elements

· **GHS label elements** The product is classified and labelled according to the Globally Harmonised System (GHS).

· Hazard pictograms

Corrosion



GHS05

· Signal word Danger

· Hazard-determining components of labelling:

dodecyldimethylamine oxide (≥5-<10 %)

2-aminoethanol (≥3-<5 %)

sodium hydroxide (≥1-<2 %)

· 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.

P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/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.

3 Composition and Information on Ingredients

· Chemical characterisation: Mixtures

· **Description:** Cleaning agent

· Dangerous components:

308062-28-4	dodecyldimethylamine oxide	≥5-<10%
	Eye damage/irritation – Category 1, H318; Acute toxicity - oral – Category 4, H302; Skin corrosion/irritation – Category 2, H315	

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141-43-5	2-aminoethanol ⚠ Skin corrosion/irritation – Category 1B, H314; Eye damage/irritation – Category 1, H318; ⚠ Acute toxicity - oral – Category 4, H302; Acute toxicity - dermal – Category 4, H312; Acute toxicity - inhalation – Category 4, H332; Specific target organ toxicity (single exposure) – Category 3, H335; Flammable liquids – Category 4, H227 Specific concentration limit: Specific target organ toxicity (single exposure) – Category 3; H335: C ≥ 5 %	≥3-<5%
1310-73-2	sodium hydroxide ⚠ Corrosive to metals – Category 1, H290; Skin corrosion/irritation – Category 1A, H314; Eye damage/irritation – Category 1, H318 Specific concentration limits: Skin corrosion/irritation – Category 1A; H314: C ≥ 5 % Skin corrosion/irritation – Category 1B; H314: 2 % ≤ C < 5 % Skin corrosion/irritation – Category 2; H315: 0.5 % ≤ C < 2 % Eye Irrit. 2; H319: 0.5 % ≤ C < 2 %	≥1-<2%
5989-27-5	(R)-p-mentha-1,8-diene 🔥 Flammable liquids – Category 3, H226; ⚠ Aspiration hazard – Category 1, H304; ⚠ Skin corrosion/irritation – Category 2, H315; Skin sensitisation – Category 1B, H317	≥0.1-<0.25%

Additional information For the wording of the listed hazard 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.
Immediately rinse with water.
- **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 further relevant information available.
- **Indication of any immediate medical attention and special treatment needed**
No further relevant information available.

5 Fire Fighting Measures

- **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** No further relevant information available.

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- **Advice for firefighters**
- **Hazchem Code:** 2X
- **Protective equipment:** No special measures required.
- **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**
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:**
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders).
Use neutralising agent.
Dispose contaminated material as waste according to section 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**
Ensure good ventilation/exhaustion at the workplace.
Prevent formation of aerosols.
Avoid contact with eyes and skin.
- **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.
Keep away from food, beverages and feed.
- **Further information about storage conditions:** Keep receptacle tightly sealed.
- **Specific end use(s)** No further relevant information available.

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8 Exposure controls and personal protection

· **Appropriate engineering controls** No further data; see section 7.

· **Ingredients with limit values that require monitoring at the workplace:**

141-43-5 2-aminoethanol

WES Short-term value: 15 mg/m³, 6 ppm
Long-term value: 7.5 mg/m³, 3 ppm

1310-73-2 sodium hydroxide

WES Peak limitation: 2 mg/m³

· **DNELs**

308062-28-4 dodecyldimethylamine oxide

Dermal DNEL 11 mg/kg×d (employee)
Inhalative DNEL 15.5 mg/m³ (Employee)

141-43-5 2-aminoethanol

Oral DNEL 3.75 mg/kg×d (consumer)
Dermal DNEL 1 mg/kg×d (employee)
Inhalative DNEL 3.3 mg/m³ (employee)
2 mg/m³ (consumer)

1310-73-2 sodium hydroxide

Inhalative DNEL 1 mg/m³ (employee)
1 mg/m³ (consumer)

· **PNECs**

308062-28-4 dodecyldimethylamine oxide

PNEC 24 mg/l (STP) (Assessment factor: 1)
PNEC sediment 5.24 mg/kg (freshwater) (sediment dw)
0.524 mg/kg (marine water) (sediment dw)
PNEC soil 1.02 mg/kg
PNEC aqua 0.034 mg/l (freshwater) (Assessment factor: 2)
0.003 mg/l (marine water) (Assessment factor: 20)

141-43-5 2-aminoethanol

PNEC 100 mg/l (STP) (Assessment factor: 10)
PNEC sediment 0.357 mg/kg (freshwater) (sediment dw)
0.036 mg/kg (marine water) (sediment dw)
PNEC soil 1.29 mg/kg (Assessment factor: 1000)
PNEC aqua 0.07 mg/l (freshwater) (Assessment factor: 10)
0.007 mg/l (marine water) (Assessment factor: 100)

5989-27-5 (R)-p-mentha-1,8-diene

PNEC 1.8 mg/l (STP) (Assessment factor: 10)
PNEC sediment 3.85 mg/kg (freshwater) (sediment dw)
0.385 mg/kg (marine water) (sediment dw)
PNEC soil 0.763 mg/kg (soil dw)

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PNEC aqua	0.014 mg/l (freshwater) (Assessment factor: 10)
	0.0014 mg/l (marine water) (Assessment factor: 100)

· 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:

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.
Filter A/P2.

· Protection of hands:



Protective gloves.

· Material of gloves Butyl rubber, BR

· 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.

· Eye protection:



Tightly sealed goggles (EN 166)

9 Physical and Chemical Properties

· General Information

· Appearance:

· Form:	Fluid
· Colour:	Orange
· Odour:	citrus-like
· Odour threshold:	Not determined.
· pH-value at 20 °C:	13.1
· pH-value 1 %:	10-12
· Change in condition	
· Melting point/freezing point:	-10 °C
· Initial boiling point and boiling range:	undetermined
· Flash point:	Not applicable
· Flammability (solid, gaseous)	Not applicable.
· Auto-ignition temperature:	not applicable
· Decomposition temperature:	Not determined.
· Ignition temperature:	Product is not selfigniting.

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· Explosive properties:	Product does not present an explosion hazard.
· Explosion limits:	
· Lower:	Not determined.
· Upper:	Not determined.
· Vapour pressure:	Not determined.
· Density at 20 °C:	1.072 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:	Not determined.
· kinematic:	Not determined.
· Other information	No further relevant information available.
· Additional information	
· Particle characteristics	Not applicable.
· Physical state	Liquid

10 Stability and Reactivity

- **Reactivity** corresponds to 10.3
- **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

11 Toxicological Information

· Information on toxicological effects
· Acute toxicity Based on available data, the classification criteria are not met.
· LD/LC50 values relevant for classification:
308062-28-4 dodecyldimethylamine oxide
Oral LD50 1064 mg/kg (Rat)

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Dermal	LD50	>2000 mg/kg (Rat)
141-43-5 2-aminoethanol		
Oral	LD50	1089 mg/kg (Rat) (OECD 401)
Dermal	LD50	2504 mg/kg (Rat)

- **Primary irritant effect:**
- **Skin corrosion/irritation** Causes severe skin burns and eye damage.
- **Serious eye damage/irritation** Causes serious eye damage.
- **Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.
- **Germ cell mutagenicity** Based on available data, the classification criteria are not met.
- **Carcinogenicity** Based on available data, the classification criteria are not met.
- **Reproductive toxicity** Based on available data, the classification criteria are not met.
- **STOT-single exposure** Based on available data, the classification criteria are not met.
- **STOT-repeated exposure** Based on available data, the classification criteria are not met.
- **Aspiration hazard** Based on available data, the classification criteria are not met.

12 Ecological Information

· Toxicity

· Aquatic toxicity:

308062-28-4 dodecyldimethylamine oxide	
LC50/96 h	2.67 mg/l (fish)
EC50/48 h	3.1 mg/l (Daphnia magna)
EC10/18 h	24 mg/l (Pseudomonas putida)
ErC50/72h	0.143 mg/l (Pseudokirchneriella subcapitata)
NOEC	0.42 mg/l (Pimephales promelas)
	0.067 mg/l (Water plants)
	0.7 mg/l (Daphnia magna)
141-43-5 2-aminoethanol	
LC50/96 h (static)	170 mg/l (fish)
	349 mg/l (Cyprinus carpio) (OECD 203)
	329 mg/l (Lepomis macrochirus)
EC50/48 h	65 mg/l (Daphnia magna)
EC50/72 h	2.5 mg/l (Scenedesmus quadricauda) (OECD 201)
EC10/30 min	≥1000 mg/l (activated sludge) (OECD 209)
NOEC	0.85 mg/l (Daphnia magna)
	1.2 mg/l (fish)
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)

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5989-27-5 (R)-p-mentha-1,8-diene

LC50/96 h	0.72 mg/l (Pimephales promelas)
EC50/48 h	0.307 mg/l (Daphnia magna)
	0.25 mg/l (Pseudokirchneriella subcapitata)
EC50/72 h	0.32 mg/l (Pseudokirchneriella subcapitata)
EC10/72 h	0.174 mg/l (Pseudokirchneriella subcapitata)
EC10/21 d	0.153 mg/l (Daphnia magna)
EC10/8 d	0.37-0.67 mg/l (Pimephales promelas)
EC50/3h	209 mg/l (activated sludge) (OECD 209)

· **Persistence and degradability** No further relevant information available.

· **Degree of elimination:**

308062-28-4 dodecyldimethylamine oxide

OECD 301B | 90 % (28 d)

141-43-5 2-aminoethanol

OECD 301A | >90 % (28 d)

5989-27-5 (R)-p-mentha-1,8-diene

OECD 301B | 71.4 % (28 d)

· **Behaviour in environmental systems:**

· **Bioaccumulative potential** No further relevant information available.

· **Mobility in soil** No further relevant information available.

· **Additional ecological information:**

· **COD-value:** 611000 mg/l

· **General notes:**

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

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 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 danger class 3 (German Regulation) (Self-assessment): extremely hazardous for water.

Do not allow product to reach ground water, water course or sewage system, even in small quantities.

Danger to drinking water if even extremely 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.

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

14 Transport information

· UN-Number	
· ADG, IMDG, IATA	UN1760
· UN proper shipping name	
· ADG	1760 CORROSIVE LIQUID, N.O.S. (SODIUM HYDROXIDE, ETHANOLAMINE)
· IMDG, IATA	CORROSIVE LIQUID, N.O.S. (SODIUM HYDROXIDE, ETHANOLAMINE)
· Transport hazard class(es)	
· ADG	
	
· Class	8 (C9) Corrosive substances.
· Label	8
· IMDG, IATA	
	
· Class	8 Corrosive substances.

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· Label	8
· Packing group · ADG, IMDG, IATA	III
· Environmental hazards:	Not applicable.
· Special precautions for user · Hazard identification number (Kemler code): · Hazchem Code: · EMS Number: · Segregation groups · Stowage Category · Stowage Code	Warning: Corrosive substances. 80 2X F-A, S-B (SGG18) Alkalis B SW2 Clear of living quarters.
· Transport in bulk according to Annex II of Marpol and the IBC Code	Not applicable.
· Transport/Additional information:	
· ADG · Limited quantities (LQ) · Excepted quantities (EQ) · Transport category · Tunnel restriction code	5L Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml 3 E
· IMDG · Limited quantities (LQ) · Excepted quantities (EQ)	5L Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
· UN "Model Regulation":	UN 1760 CORROSIVE LIQUID, N.O.S. (SODIUM HYDROXIDE, ETHANOLAMINE), 8, III

15 Regulatory information

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

· Australian Inventory of Industrial Chemicals	
7732-18-5	water
164462-16-2	methylglycine diacetic acid, trisodium salt, solution
141-43-5	2-aminoethanol
1310-73-2	sodium hydroxide
5989-27-5	(R)-p-mentha-1,8-diene
98-55-5	alpha-Terpineol
5392-40-5	Citral

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13254-34-7	2,6-Dimethyl-2-heptanol
586-62-9	terpinolene
18479-58-8	Dihydromyrcenol
99-86-5	p-mentha-1,3-diene
80-56-8	alpha-Pinene
78-70-6	Linalool
124-13-0	octanal
2783-94-0	C.I. Food Yellow 3
99-85-4	p-Mentha-1,4-diene
106-26-3	Neral
141-27-5	Geranial
106-24-1	geraniol
123-35-3	Myrcene
138-86-3	dipentene, crude
106-22-9	dl-Citronellol
104-55-2	cinnamaldehyde
97-53-0	Eugenol
106-23-0	citronellal
104-54-1	Cinnamyl alcohol
120-51-4	Benzyl benzoate
4602-84-0	Farnesol

· Standard for the Uniform Scheduling of Medicines and Poisons

141-43-5	2-aminoethanol	S4, S5, S6
1310-73-2	sodium hydroxide	S5, S6, S10
5392-40-5	Citral	S5
106-24-1	geraniol	S6
97-53-0	Eugenol	S5, S6

· Australia: Priority Existing Chemicals

5989-27-5	(R)-p-mentha-1,8-diene
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· National regulations

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

· **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

H226 Flammable liquid and vapour.

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H227 Combustible liquid.
H290 May be corrosive to metals.
H302 Harmful if swallowed.
H304 May be fatal if swallowed and enters airways.
H312 Harmful in contact with skin.
H314 Causes severe skin burns and eye damage.
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H318 Causes serious eye damage.
H319 Causes serious eye irritation.
H332 Harmful if inhaled.
H335 May cause respiratory irritation.

Contact:

Regulatory Affairs

Tel.: +49-7195-14-0

productsafety.management.de@karcher.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

Flammable liquids – Category 3: Flammable liquids – Category 3

Flammable liquids – Category 4: Flammable liquids – Category 4

Corrosive to metals – Category 1: Corrosive to metals – Category 1

Acute toxicity - oral – Category 4: Acute toxicity – Category 4

Skin corrosion/irritation – Category 1A: Skin corrosion/irritation – Category 1A

Skin corrosion/irritation – Category 1B: Skin corrosion/irritation – Category 1B

Skin corrosion/irritation – Category 2: Skin corrosion/irritation – Category 2

Eye damage/irritation – Category 1: Serious eye damage/eye irritation – Category 1

Skin sensitisation – Category 1B: Skin sensitisation – Category 1B

Specific target organ toxicity (single exposure) – Category 3: Specific target organ toxicity (single exposure) – Category 3

Aspiration hazard – Category 1: Aspiration hazard – Category 1

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

0-011-324-0 RM 838/5 2-878