

Safety Data Sheet
according to WHS Regulations

Printing date 31.03.2023

Version number 5

Revision: 27.09.2022

1 Identification

- **Product identifier**
- **Trade name: PressurePro Foam Cleaner RM 838 (direct)**
- **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.karcher.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: +1 703-741-5970 (collect calls accepted)

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.

· **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

2-aminoethanol

· **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): 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.

3 Composition and Information on Ingredients

· **Chemical characterisation: Mixtures**

· **Description:** Mixture of substances listed below with non-hazardous additions.

· **Dangerous components:**

308062-28-4	dodecyldimethylamine oxide ☠ Eye Dam. 1, H318; ☠ Acute Tox. 4, H302; Skin Irrit. 2, H315	≥1-<2.5%
141-43-5	2-aminoethanol ☠ Skin Corr. 1B, H314; Eye Dam. 1, H318; ☠ Acute Tox. 4, H302; Acute Tox. 4, H312; Acute Tox. 4, H332; STOT SE 3, H335; Flam. Liq. 4, H227	≥1-<2.5%

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

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Trade name: PressurePro Foam Cleaner RM 838 (direct)*(Contd. of page 2)***4 First Aid Measures**

- **Description of 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.
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

- **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** No further relevant information available.
- **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:**
Do not allow product to reach sewage system or any water course.
Inform respective authorities in case of seepage into water course or sewage system.
Dilute with plenty of water.
Do not allow to enter sewers/ surface or ground water.
Do not allow to penetrate the ground/soil.

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· **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.

· **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.

· **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:**

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.

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:**

141-43-5 2-aminoethanol

WES	Short-term value: 15 mg/m ³ , 6 ppm Long-term value: 7.5 mg/m ³ , 3 ppm
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· **DNELs**

308062-28-4 dodecyldimethylamine oxide

Dermal	DNEL	11 mg/kg*d (employee)
Inhalative	DNEL	15.5 mg/m ³ (Employee)

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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)

- **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.
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

- **Information on basic physical and chemical properties**

- **General Information**

- **Appearance:**

Form:	Fluid
Colour:	Orange
Odour:	citrus-like
Odour threshold:	Not determined.

- **pH-value at 20 °C:** 12.6

- **pH-value 1 %:** 9-10

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· Change in condition Melting point/freezing point: Initial boiling point and boiling range:	undetermined >100 °C
· Flash point:	Not applicable
· Flammability (solid, gaseous)	Not applicable.
· Ignition temperature:	not applicable
· Decomposition temperature:	Not determined.
· Auto-ignition temperature:	Product is not selfigniting.
· Explosive properties:	Product does not present an explosion hazard.
· Explosion limits: Lower: Upper:	Not determined. Not determined.
· Vapour pressure:	Not determined.
· Density at 20 °C: · Relative density · Vapour density · Evaporation rate	1.02 g/cm ³ Not determined. Not determined. Not determined.
· Solubility in / Miscibility with Water:	Fully miscible
· Partition coefficient: n-octanol/water:	Not determined.
· Viscosity: dynamic: kinematic:	Not determined. Not determined.
· Solvent content: Solids content:	5.5 %
· Other information	No further relevant information available.

10 Stability and Reactivity

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

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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)
Dermal	LD50	>2000 mg/kg (Rat)

141-43-5 2-aminoethanol

Oral	LD50	1089 mg/kg (Rat) (OECD 401)
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- **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.
- **Additional toxicological information:**
- **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**
- **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 (F16)
	0.7 mg/l (Daphnia magna)

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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)
NOEC	0.85 mg/l (Daphnia magna) 1.2 mg/l (fish)

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

· **Behaviour in environmental systems:**

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

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

· **Additional ecological information:**

· **COD-value:** 122.000 mg/l

· **General notes:**

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.

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.

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

Do not allow product to reach ground water, water course or sewage system.

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.

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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:**
Non contaminated packagings may be recycled.
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 · IMDG, IATA	1760 CORROSIVE LIQUID, N.O.S. (SODIUM HYDROXIDE, ETHANOLAMINE) CORROSIVE LIQUID, N.O.S. (SODIUM HYDROXIDE, ETHANOLAMINE)
· Transport hazard class(es) · ADG	
	
· Class · Label	8 (C9) Corrosive substances. 8
· IMDG, IATA	
	
· Class · Label	8 Corrosive substances. 8
· Packing group · ADG, IMDG, IATA	III
· Environmental hazards:	Not applicable.
· Special precautions for user	Warning: Corrosive substances.

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<ul style="list-style-type: none"> · Hazard identification number (Kemler code): 80 · Hazchem Code: 2X · EMS Number: F-A,S-B · Stowage Category A · Stowage Code SW2 Clear of living quarters. 	
<ul style="list-style-type: none"> · Transport in bulk according to Annex II of Marpol and the IBC Code Not applicable. 	
<ul style="list-style-type: none"> · Transport/Additional information: 	
<ul style="list-style-type: none"> · 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 · Transport category 3 · Tunnel restriction code E 	
<ul style="list-style-type: none"> · 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 	
<ul style="list-style-type: none"> · 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
586-62-9	terpinolene
98-55-5	alpha-Terpineol
13254-34-7	2,6-Dimethyl-2-heptanol
5392-40-5	citral
18479-58-8	Dihydromyrcenol
78-70-6	Linalool
124-13-0	octanal
2783-94-0	C.I. Food Yellow 3

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106-26-3	Neral
141-27-5	Geranial
106-24-1	geraniol
80-56-8	alpha-Pinene
123-35-3	Myrcene
138-86-3	dipentene, crude
106-22-9	dl-Citronellol
97-53-0	Eugenol
104-55-2	cinnamaldehyde
106-23-0	citronellal
120-51-4	Benzyl benzoate
4602-84-0	Farnesol
104-54-1	Cinnamyl alcohol

· **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

· **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**

- H227 Combustible liquid.
- H302 Harmful if swallowed.
- H312 Harmful in contact with skin.
- H314 Causes severe skin burns and eye damage.
- H315 Causes skin irritation.
- H318 Causes serious eye damage.
- H332 Harmful if inhaled.
- H335 May cause respiratory irritation.

· **Contact:**

Regulatory Affairs
Tel.: +49-7195-14-0
productsafety.management@de.kaercher.com

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Trade name: PressurePro Foam Cleaner RM 838 (direct)*(Contd. of page 11)***· 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)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

Flam. Liq. 4: Flammable liquids – Category 4

Met. Corr. 1: Corrosive to metals – Category 1

Acute Tox. 4: Acute toxicity – Category 4

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

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

· * Data compared to the previous version altered.

· 0-011-000-0 RM838direct/2 2-403

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