

Printing date 19.09.2023 Version number 5 (replaces version 4) Revision: 13.12.2021

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

- 1.1 Product identifier
- Trade name: VehiclePro Foam Cleaner RM 838
- 1.2 Relevant identified uses of the substance or mixture and uses advised against Restricted to professional users.
- · Application of the substance / the mixture Detergent
- 1.3 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 (UK) Ltd.

Kärcher House Brookhill Way Banbury Oxon OX16 3ED Great Britain

Tel.: +44-1295-752-000

Internet: www.karcher.com

· Further information obtainable from:

Regulatory Affairs Tel.: +49-7195-14-0

productsafety.management@de.kaercher.com

1.4 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)

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. 1B H314 Causes severe skin burns and eye damage.

Eye Dam. 1 H318 Causes serious eye damage.

Aquatic Chronic 3 H412 Harmful to aquatic life with long lasting effects.

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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 GB CLP regulation.

· Hazard pictograms



· Signal word Danger

· Hazard-determining components of labelling:

dodecyldimethylamine oxide

2-aminoethanol

sodium hydroxide

· Hazard statements

H290 May be corrosive to metals.

H314 Causes severe skin burns and eye damage.

H412 Harmful to aquatic life with long lasting effects.

· 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.

Additional information:

Contains (R)-p-mentha-1,8-diene. May produce an allergic reaction.

- 2.3 Other hazards
- · Results of PBT and vPvB assessment
- · PBT: Not applicable.
- · vPvB: Not applicable.

SECTION 3: Composition/information on ingredients

- 3.2 Mixtures
- Description: Mixture of substances listed below with non-hazardous additions.

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Dangerous components:		
CAS: 308062-28-4 EC number: 931-292-6 Reg.nr.: 01-2119490061-47-XXXX	dodecyldimethylamine oxide Eye Dam. 1, H318; Aquatic Acute 1, H400; Aquatic Chronic 2, H411; Acute Tox. 4, H302; Skin Irrit. 2, H315	≥5-<10%
CAS: 141-43-5 EINECS: 205-483-3 Index number: 603-030-00-8 Reg.nr.: 01-2119486455-28-xxxx	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; Aquatic Chronic 3, H412 Specific concentration limit: STOT SE 3; H335: C ≥ 5 %	≥2.5-<5%
CAS: 1310-73-2 EINECS: 215-185-5 Index number: 011-002-00-6 Reg.nr.: 01-2119457892-27-xxxx	sodium hydroxide Met. Corr.1, H290; Skin Corr. 1A, H314 Specific concentration limits: Skin Corr. 1A; H314: C ≥ 5 % Skin Corr. 1B; H314: 2 % ≤ C < 5 % Skin Irrit. 2; H315: 0.5 % ≤ C < 2 % Eye Irrit. 2; H319: 0.5 % ≤ C < 2 %	≥0.5-<2%
CAS: 5989-27-5 EINECS: 227-813-5 Index number: 601-096-00-2 Reg.nr.: 01-2119529223-47	(R)-p-mentha-1,8-diene Flam. Liq. 3, H226; Asp. Tox. 1, H304; Aquatic Acute 1, H400; Skin Irrit. 2, H315; Skin Sens. 1B, H317; Aquatic Chronic 3, H412	≥0.1-<0.25%
Regulation (EC) No 648/2004	on detergents / Labelling for contents	
amphoteric surfactants perfumes (LIMONENE, TERPINOL	ENE)	≥5 - <15%
<u>'</u>	wording of the listed hazard phrases refer to section 16.	

SECTION 4: First aid measures

- 4.1 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.

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.

- · 4.2 Most important symptoms and effects, both acute and delayed No further relevant information available.
- 4.3 Indication of any immediate medical attention and special treatment needed 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.

- 5.2 Special hazards arising from the substance or mixture No further relevant information available.
- 5.3 Advice for firefighters
- · Protective equipment: No special measures required.
- Additional information Collect contaminated fire fighting water separately. It must not enter the sewage system.

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:

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.

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 section 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

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.
- 7.2 Conditions for safe storage, including any incompatibilities
- Storage
- Requirements to be met by storerooms and receptacles: Store only in the original receptacle.

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

SECTION 8: Exposure controls/personal protection

· 8.1 Control parameters

· Ingredients wit	h limit values that require monitoring at the workplace:	
141-43-5 2-amino		
	value: 7.6 mg/m³, 3 ppm value: 2.5 mg/m³, 1 ppm	
1310-73-2 sodiun		
WEL Short-term v	value: 2 mg/m³	
· DNELs		
308062-28-4 dode	ecyldimethylamine oxide	
Dermal DNEL	11 mg/kg×d (employee)	
Inhalative DNEL	15.5 mg/m3 (Employee)	
141-43-5 2-amino	ethanol	
Oral DNEL	3.75 mg/kg×d (consumer)	
	1 mg/kg×d (employee)	
	3.3 mg/m3 (employee)	
	2 mg/m3 (consumer)	
	1310-73-2 sodium hydroxide	
	1 mg/m3 (employee)	
	1 mg/m3 (consumer)	
PNECs		
	ecyldimethylamine oxide	
	24 mg/l (STP) (Assessment factor: 1)	
PNEC sediment 5	5.24 mg/kg (freshwater) (sediment dw)	
C	0.524 mg/kg (marine water) (sediment dw)	
	1.02 mg/kg	
· · · · · · · · · · · · · · · · · · ·	0.034 mg/l (freshwater) (Assessment factor: 2)	
	0.003 mg/l (marine water) (Assessment factor: 20)	
141-43-5 2-amino		
	I00 mg/l (STP) (Assessment factor: 10)	
	0.357 mg/kg (freshwater) (sediment dw)	
	0.036 mg/kg (marine water) (sediment dw)	
PNEC soil 1	I.29 mg/kg (Assessment factor: 1000)	
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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	٦
PNEC	1.8 mg/l (STP) (Assessment factor: 10)	٦
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)	
PNEC aqua	0.014 mg/l (freshwater) (Assessment factor: 10)	
	0.0014 mg/l (marine water) (Assessment factor: 100)	

- 8.2 Exposure controls
- · **Appropriate engineering controls** No further data; see section 7.
- Individual protection measures, such as personal protective equipment
- · General protective and hygienic measures

Do not inhale gases / fumes / aerosols.

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.

· Hand protection



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.

· Eye/face protection



Tightly sealed goggles (EN 166)

SECTION 9: Physical and chemical properties

- 9.1 Information on basic physical and chemical properties
- General Information

Physical stateColour:Odour:Odour:citrus-like

· Odour threshold: Not determined.

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· Melting point/freezing point:	-10 °C
Boiling point or initial boiling point and boiling range	undetermined
Flammability	Not applicable.
· Lower and upper explosion limit	
· Lower:	Not determined.
· Upper:	Not determined.
Flash point:	Not applicable
· Auto-ignition temperature:	not applicable
Decomposition temperature:	Not determined.
pH at 20 °C	13.3
pH-value 1 %:	10-11
· Viscosity:	
· Kinematic viscosity	Not determined.
· dynamic at 20 °C:	34 mPas
Solubility	
· Water:	Fully miscible
Partition coefficient n-octanol/water (log value)	Not determined.
· Vapour pressure:	Not determined.
Density and/or relative density	Not dotominou.
Density at 20 °C:	1.076 g/cm³
Relative density	Not determined.
· Vapour density	Not determined.
Relative gas density	Not determined.
· Particle characteristics	Not determined. Not applicable.
	Not applicable.
9.2 Other information	
· Appearance:	
· Form:	Fluid
Important information on protection of health and	
environment, and on safety.	
Ignition temperature:	Product is not selfigniting.
Explosive properties:	Product does not present an explosion hazard.
· Solvent content:	Troduct 4000 Hot procent an explosion nazara.
· Solids content:	31.5 %
Change in condition	01.0 /0
· Evaporation rate	Not determined.
•	
Information with regard to physical hazard classe	
Explosives	Void
· Flammable gases	Void
Aerosols	Void
Oxidising gases	Void
Gases under pressure	Void
Flammable liquids	Void
Flammable solids	Void
Self-reactive substances and mixtures	Void
· Pyrophoric liquids	Void
· Pyrophoric solids	Void
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Self-heating substances and mixtures
 Substances and mixtures, which emit flammable gases in contact with water
 Oxidising liquids
 Oxidising solids
 Organic peroxides
 Void

• Corrosive to metals May be corrosive to metals.

· Desensitised explosives Void

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.
- 10.6 Hazardous decomposition products: No dangerous decomposition products known

SECTION 11: Toxicological information

- · 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008
- · Acute toxicity Based on available data, the classification criteria are not met.

· LD/LC5	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)		

- · 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.

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- * 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.
- 11.2 Information on other hazards
- · Endocrine disrupting properties

None of the ingredients is listed.

SECTION 12: Ecological information

· 12.1 Toxicity

· Aquatic toxicity:		
308062-28-4 dod	ecyldimethylamine 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-amino	pethanol	
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 sodiun	m 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)	
5989-27-5 (R)-p-n	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)	
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EC50/3h	209 mg/l (activated sludge) (OECD 209)	
· 12.2 Persis	stence and degradability No further relevant information available.	
Degree of e	elimination:	
308062-28-4	ł dodecyldimethylamine oxide	
OECD 301B	90 % (28 d)	
141-43-5 2-a	aminoethanol	
OECD 301A	>90 % (28 d)	
5989-27-5 (R	R)-p-mentha-1,8-diene	
OECD 301B	71.4 % (28 d)	

- · 12.3 Bioaccumulative potential No further relevant information available.
- · 12.4 Mobility in soil No further relevant information available.
- 12.5 Results of PBT and vPvB assessment
- · **PBT:** Not applicable.
- · **vPvB:** Not applicable.
- · 12.6 Endocrine disrupting properties The product does not contain substances with endocrine disrupting properties.
- 12.7 Other adverse effects
- Additional ecological information:
- COD-value: 611000 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 liqid waste.

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

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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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

20 01 29* detergents containing hazardous substances

- *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.

SECTION 14:	Transport	information
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	14.1	UN number	or ID r	number
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· ADR, IMDG, IATA UN1760

14.2 UN proper shipping name

ADR 1760 CORROSIVE LIQUID, N.O.S. (SODIUM HYDROXIDE,

8

ETHANOLAMINE)

· IMDG, IATA CORROSIVE LIQUID, N.O.S. (SODIUM HYDROXIDE,

ETHANOLAMINE)

· 14.3 Transport hazard class(es)

· ADR



· Class 8 (C9) Corrosive substances.

· Label

· IMDG, IATA



· Class 8 Corrosive substances.

· Label

· 14.4 Packing group

· ADR, IMDG, IATA

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14.5 Environmental hazards:	
Marine pollutant:	No
14.6 Special precautions for user	Warning: Corrosive substances.
Hazard identification number (Kemler code):	80
EMS Number:	F-A,S-B
Segregation groups	(SGG18) Alkalis
Stowage Category	B
Stowage Code	SW2 Clear of living quarters.
14.7 Maritime transport in bulk according to	IMO
instruments	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
UN "Model Regulation":	UN 1760 CORROSIVE LIQUID, N.O.S. (SODIUM
•	HYDROXIDE, ETHANOLAMINE), 8, III

SECTION 15: Regulatory information

- · 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
- Directive 2012/18/EU
- · Named dangerous substances ANNEX I None of the ingredients is listed.
- 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.

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A product information sheet can be provided if requested.

· Relevant phrases

H226 Flammable liquid and vapour.

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.

H332 Harmful if inhaled.

H335 May cause respiratory irritation.

H400 Very toxic to aquatic life.

H411 Toxic to aquatic life with long lasting effects.

H412 Harmful to aquatic life with long lasting effects.

Contact:

Regulatory Affairs 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

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

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 (UK REACH)

PNEC: Predicted No-Effect Concentration (UK REACH)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

Flam. Liq. 3: Flammable liquids - Category 3

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

Skin Sens. 1B: Skin sensitisation - Category 1B

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

Asp. Tox. 1: Aspiration hazard - Category 1

Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard - Category 1

Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard - Category 2

Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard - Category 3

* Data compared to the previous version altered.

0.011 - 324.0RM 838/4 2.493