

Printing date 22.03.2024

Version number 11 (replaces version 10)

Revision: 10.10.2023

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

1.1 Product identifier

Trade name: PressurePro Solar Cleaner RM 99

- **1.2 Relevant identified uses of the substance or mixture and uses advised against** Restricted to professional users.
- * Application of the substance / the mixture High pressure cleaner

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@karcher.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 Eye Irrit. 2 H319 Causes serious eye irritation. Aquatic Chronic 3 H412 Harmful to aquatic life with long lasting effects. 2.2 Label elements Labelling according to Regulation (EC) No 1272/2008 The product is classified and labelled according to the GB CLP regulation.

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· Hazard pictog	grams
GHS07	
· Signal word \ · Hazard stater	
	serious eye irritation.
	to aquatic life with long lasting effects.
· Precautionary	
P264	Wash hands thoroughly after handling.
P273	Avoid release to the environment.
P280	Wear eye protection / face protection.
P305+P351+F	2338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337+P313	If eye irritation persists: Get medical advice/attention.
P501	Dispose of contents/container in accordance with local/regional/national/international regulations.

SECTION 3: Composition/information on ingredients

[•] 3.2 Mixtures

· Description: Cleaning agent

[•] Dangerous components:		
CAS: 112-34-5 EINECS: 203-961-6 Index number: 603-096-00-8 Reg.nr.: 01-2119475104-44-xxxx	2-(2-butoxyethoxy)ethanol	_ 1-5%
CAS: 67-63-0 EINECS: 200-661-7 Index number: 603-117-00-0 Reg.nr.: 01-2119457558-25-xxxx	propan-2-ol	1-5%
CAS: 68439-51-0	Fatty alcohol ethoxylate ♦ Acute Tox. 4, H302; Eye Irrit. 2, H319; Aquatic Chronic 3, H412	≥2.5-<5%
	Polyamine, anionically modified Ý Eye Dam. 1, H318;	≥1-<3%
CAS: 95-14-7 EINECS: 202-394-1 Reg.nr.: 01-2119979079-20-xxxx	benzotriazole Aquatic Chronic 2, H411; () Acute Tox. 4, H302; Eye Irrit. 2, H319	≥1-<2.5%
CAS: 2605-79-0 EINECS: 220-020-5 Reg.nr.: 01-2119959297-22	decyldimethyl aminoxide Eye Dam. 1, H318; Aquatic Acute 1, H400; Aquatic Chronic 2, H411; Acute Tox. 4, H302	≥1-<2.5%
Additional information For the wording of the listed hazard phrases refer to section 16.		



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SECTION 4: First aid measures

- [•] 4.1 Description of first aid measures
- After inhalation Supply fresh air; consult doctor in case of complaints.
- After skin contact Generally the product does not irritate the skin.
- After eye contact Rinse opened eye for several minutes under running water.
- [•] After swallowing

Rinse out mouth and then drink plenty of water. If symptoms persist consult doctor.

• 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.

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 Not required.

[•] 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:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders). 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

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: No special requirements.

- Information about storage in one common storage facility: 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 with limit values that require monitoring at the workplace:

112-34-5 2-(2-butoxyethoxy)ethanol

WEL Short-term value: 101.2 mg/m³, 15 ppm Long-term value: 67.5 mg/m³, 10 ppm

67-63-0 propan-2-ol

WEL Short-term value: 1250 mg/m³, 500 ppm Long-term value: 999 mg/m³, 400 ppm

DNELs			
67-63-0 pi	67-63-0 propan-2-ol		
Oral	DNEL	26 mg/kg×d (consumer)	
Dermal	DNEL	888 mg/kg×d (employee)	
		319 mg/kg×d (consumer)	
Inhalative	DNEL	500 mg/m3 (employee)	
		89 mg/m3 (consumer)	
PNECs			
67-63-0 propan-2-ol			
PNEC		140.9 mg/l (freshwater)	

PNEC	140.9 mg/l (freshwater)	
	140.9 mg/l (marine water)	
	140.9 mg/l (STP)	
	2251 mg/l (STP)	
PNEC sediment	552 mg/kg (freshwater)	
	552 mg/kg (marine water)	
PNEC soil	28 mg/kg (soil)	
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* 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
- 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: Not necessary if room is well-ventilated.
- 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 state	Fluid	
· Colour:	Colourless	
· Odour:	Alcohol-like	
· Odour threshold:	Not determined.	
 Melting point/freezing point: 	-1 °C	
Boiling point or initial boiling point and boiling range	100 °C	
Flammability	Not applicable.	
Lower and upper explosion limit		
· Lower:	Not determined.	
· Upper:	Not determined.	
· Flash point:	62 °C (Closed Cup)	
 Auto-ignition temperature: 	not applicable	
 Decomposition temperature: 	Not determined.	
pH at 20 °C	9	
[·] pH-value 1 %:	7-9	
· Viscosity:		
Kinematic viscosity	Not determined.	
· dynamic:	Not determined.	
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Solubility		
Water:	Fully miscible	
Partition coefficient n-octanol/water (log value)	Not determined.	
Vapour pressure:	Not determined.	
Density and/or relative density		
Density at 20 °C:	1.006 g/cm³	
Relative density	Not determined.	
Vapour density	Not determined.	
Relative gas density	Not determined.	
Particle characteristics	Not applicable.	
9.2 Other information		
Appearance:		
Form:	Fluid	
Important information on protection of health a	Ind	
environment, and on safety.		
Ignition temperature:	Product is not selfigniting.	
Explosive properties:	Not determined.	
Change in condition	Hot dotominou.	
Evaporation rate	Not determined.	
•		
Information with regard to physical hazard clas	Ses	
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	
Self-heating substances and mixtures	Void	
Substances and mixtures, which emit flammable gas	ses	
in contact with water	Void	
Oxidising liquids	Void	
Oxidising solids	Void	
Organic peroxides	Void	
Corrosive to metals	Void	
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.

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- * 10.3 Possibility of hazardous reactions No dangerous reactions known
- **10.4 Conditions to avoid** No further relevant information available.
- * 10.5 Incompatible materials: No further relevant information available.

* 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/LC50 values relevant for classificati	on
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112-34-5 2-(2-butoxyethoxy)ethanol

Oral LD50 2410 mg/kg (mouse) (OECD 401)

Dermal LD50 2764 mg/kg (Rabbit)

67-63-0 propan-2-ol

Oral LD50 5840 mg/kg (Rat) (OECD 401)

Dermal LD50 13900 mg/kg (Rabbit) (OECD 402)

95-14-7 benzotriazole

Oral LD50 500 mg/kg (Rat)

2605-79-0 decyldimethyl aminoxide

Oral LD50 301-2000 mg/kg (Rat)

• Skin corrosion/irritation Based on available data, the classification criteria are not met.

- Serious eye damage/irritation Causes serious eye irritation.
- · 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.
- 11.2 Information on other hazards

Endocrine disrupting properties

95-14-7 benzotriazole

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List II

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12.1 Toxi	•
Aquatic to	-
	-(2-butoxyethoxy)ethanol
	1300 mg/l (Lepomis macrochirus)
	1170 mg/l (Pseudomonas putida)
	2850 mg/l (Daphnia magna) (DIN 38412)
NOEC	>100 mg/l (Desmodesmus subspicatus)
67-63-0 pro	
	9640 mg/l (Pimephales promelas)
	13299 mg/l (Daphnia magna)
	>1000 mg/l (Desmodesmus subspicatus)
	>1000 mg/l (Pseudomonas putida) (DIN 38412)
	nzotriazole
	180 mg/l (Danio rerio) (OECD 203)
	15.8 mg/l (Aquatic invertebrates) (OECD 202)
EC50	1060 mg/l /3 h (STP) (OECD 209)
	1.18 mg/l (Pseudokirchneriella subcapitata)
	decyldimethyl aminoxide
	31.8 mg/l (Brachydanio rerio) (OECD 203)
	3.43 mg/l (Daphnia magna) (OECD 202)
EC30/72 h	0.16 mg/l (Pseudokirchneriella subcapitata) (OECD 201)
	istence and degradability No further relevant information available.
	felimination:
	-(2-butoxyethoxy)ethanol
	C 80-90 % (28 d)
	E >70 % (28 d) B 100 % (28 d)
UECD 302	5 100 % (20 u)
12.3 Bioa	ccumulative potential No further relevant information available.
12.4 Mobi	lity in soil No further relevant information available.
12.5 Resu	Ilts of PBT and vPvB assessment
PBT: Not a	
	applicable.
	ocrine disrupting properties For information on endocrine disrupting properties see section 11.

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12.7 Other adverse effects Additional ecological information:

· 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 liqid 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.

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.

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:
- 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		
[·] 14.1 UN number or ID number [·] ADR, IMDG, IATA	Void	
[·] 14.2 UN proper shipping name [·] ADR, IMDG, IATA	Void	
[•] 14.3 Transport hazard class(es)		
[·] ADR, ADN, IMDG, IATA [·] Class	Void	
		(Contd. on page 1





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 14.4 Packing group ADR, IMDG, IATA 	Void	
[·] 14.5 Environmental hazards:	Not applicable.	
• 14.6 Special precautions for user	Not applicable.	
• 14.7 Maritime transport in bulk according	to IMO	
instruments	Not applicable.	
UN "Model Regulation":	Void	

SECTION 15: Regulatory information

[·] 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture [·] Poisons Act

Regulated explosives precursors	
None of the ingredients is listed.	
· Regulated poisons	
None of the ingredients is listed.	
· Reportable explosives precursors	
None of the ingredients is listed.	
· Reportable poisons	
1310-73-2 sodium hydroxide	12% of total caustic alkalinity
 Directive 2012/18/EU Named dangerous substances - ANNEX I None of the ingred 	ients 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. A product information sheet can be provided if requested.

· Relevant phrases

H225 Highly flammable liquid and vapour.
H302 Harmful if swallowed.
H318 Causes serious eye damage.
H319 Causes serious eye irritation.
H332 Harmful if inhaled.
H336 May cause drowsiness or dizziness.

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(Contd. of page 10) 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@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 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 (ÚK REACH) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative Flam. Liq. 2: Flammable liquids - Category 2 Acute Tox. 4: Acute toxicity – Category 4 Eye Dam. 1: Serious eye damage/eye irritation - Category 1 Eye Irrit. 2: Serious eye damage/eye irritation - Category 2 STOT SE 3: Specific target organ toxicity (single exposure) - Category 3 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. 0.011-339.0 RM 99/4 2.707

