

Printing date 23.08.2024 Version number 12 (replaces version 11) Revision: 20.08.2024

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

- 1.1 Product identifier
- Trade name: PressurePro Solar Cleaner RM 99
- · UFI: G660-M0FP-A00P-FEEP
- 1.2 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
- 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

#### Karcher Ltd

Unit 3 Redcow Retail Centre Robinhood Road, Ballymount Dublin 22 D22 PY03

Tel.: +353 1 409 7777

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:

Emergency medical information: 8am-10pm (seven days) contact National Poisons Information Centre, Beaumont Hospital, Dublin 9 DOV2NO, Ireland.

Telephone Number: +353 (0)1 809 2166

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.

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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 CLP regulation.

· Hazard pictograms



#### · Signal word Warning

#### · Hazard statements

H319 Causes serious eye irritation.

H412 Harmful to aquatic life with long lasting effects.

### **Precautionary statements**

P101 If medical advice is needed, have product container or label at hand.

P102 Keep out of reach of children.

P264 Wash hands thoroughly after handling.
P273 Avoid release to the environment.
P280 Wear eye protection / face protection.

P305+P351+P338 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.

### 2.3 Other hazards

- · Results of PBT and vPvB assessment
- · **PBT:** Not applicable.
- · vPvB: Not applicable.
- Determination of endocrine-disrupting properties

Not applicable.

95-14-7 benzotriazole List II

## **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  Eye Irrit. 2, H319	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 Flam. Liq. 2, H225;	1-5%

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CAS: 68439-51-0	Fatty alcohol ethoxylate	≥2.5-<5%
	Acute Tox. 4, H302; Eye Irrit. 2, H319; Aquatic Chronic 3, H412	1
	Polyamine, anionically modified	≥1-<3%
	📀 Eye Dam. 1, H318; 🗘 Acute Tox. 4, H332	1
CAS: 95-14-7	benzotriazole	≥1-<2.5%
EINECS: 202-394-1	Aquatic Chronic 2, H411; (1) Acute Tox. 4, H302; Eye Irrit. 2, H319	1
Reg.nr.: 01-2119979079-20-xxxx		
CAS: 2605-79-0	decyldimethyl aminoxide	≥1-<2.5%
EINECS: 220-020-5	Eye Dam. 1, H318; 🏵 Aquatic Acute 1, H400; Aquatic Chronic 2, H411;	1
Reg.nr.: 01-2119959297-22	Acute Tox. 4, H302	
Regulation (EC) No 648/2004	on detergents / Labelling for contents	
non-ionic surfactants		<5%

## non-ionic surfactants

### **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.

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



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#### 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.

## **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

OEL Short-term value: 101.2 mg/m³, 12 ppm Long-term value: 67.5 mg/m³, 10 ppm

**IOELV** 

### 67-63-0 propan-2-ol

OEL Short-term value: 400 ppm Long-term value: 200 ppm

Skin

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· DNELs	· DNELs		
67-63-0 pı	ropan-	-2-ol	
Oral	DNEL	L 26 mg/kg×d (consumer)	
Dermal	DNEL	L 888 mg/kg×d (employee)	
		319 mg/kg×d (consumer)	
Inhalative	DNEL	L 500 mg/m3 (employee)	
		89 mg/m3 (consumer)	
· PNECs			
67-63-0 pı	ropan-	-2-ol	
PNEC		140.9 mg/l (freshwater)	
		140.9 mg/l (marine water)	
		140.9 mg/l (STP)	
2251 mg/l (STP)			
PNEC sed	PNEC sediment 552 mg/kg (freshwater)		
		552 mg/kg (marine water)	
PNEC soil		28 mg/kg (soil)	

- 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)

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## **SECTION 9: Physical and chemical properties**

9.1 Information on basic physical and chemical properties

General Information

Physical state
Colour:
Odour:
Odour:
Odour threshold:
Fluid
Colourless
Alcohol-like
Not determined.

• Melting point/freezing point: -1 °C

Boiling point or initial boiling point and boiling range 100 °C 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
 dynamic:
 Not determined.

· 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:

Relative density

Vapour density

Relative gas density

Relative gas density

Particle characteristics

1.006 g/cm³

Not determined.

Not determined.

### 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: Not determined.

· Change in condition

• Evaporation rate Not determined.

Information with regard to physical hazard classes

Explosives
Flammable gases
Aerosols
Oxidising gases
Void
Void

· Gases under pressure Void

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· 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 g	ases	
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.
- · 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/LC5	· LD/LC50 values relevant for classification:	
112-34-	5 2-(2-	butoxyethoxy)ethanol
Oral	LD50	2410 mg/kg (mouse) (OECD 401)
Dermal	LD50	2764 mg/kg (Rabbit)
67-63-0	propa	n-2-ol
Oral	LD50	5840 mg/kg (Rat) (OECD 401)
Dermal	LD50	13900 mg/kg (Rabbit) (OECD 402)
95-14-7	benzo	triazole
Oral	LD50	500 mg/kg (Rat)
2605-79	-0 dec	yldimethyl aminoxide
Oral	LD50	301-2000 mg/kg (Rat)

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- · 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

List II

## **SECTION 12: Ecological information**

### 12.1 Toxicity

· Aquatic to	· Aquatic toxicity:	
112-34-5 2-	-(2-butoxyethoxy)ethanol	
LC50/96 h	1300 mg/l (Lepomis macrochirus)	
EC10/16 h	1170 mg/l (Pseudomonas putida)	
EC50/24 h	2850 mg/l (Daphnia magna) (DIN 38412)	
NOEC	>100 mg/l (Desmodesmus subspicatus)	
67-63-0 pro	67-63-0 propan-2-ol	
LC50/96 h	9640 mg/l (Pimephales promelas)	
EC50/48 h	13299 mg/l (Daphnia magna)	
EC50/72 h	>1000 mg/l (Desmodesmus subspicatus)	
EC10/18 h	>1000 mg/l (Pseudomonas putida) (DIN 38412)	
95-14-7 be	nzotriazole	
LC50/96 h	180 mg/l (Danio rerio) (OECD 203)	
EC50/48 h	15.8 mg/l (Aquatic invertebrates) (OECD 202)	
EC50	1060 mg/l /3 h (STP) (OECD 209)	
ErC10/72h	1.18 mg/l (Pseudokirchneriella subcapitata)	
2605-79-0	2605-79-0 decyldimethyl aminoxide	
	31.8 mg/l (Brachydanio rerio) (OECD 203)	
EC50/48 h	3.43 mg/l (Daphnia magna) (OECD 202)	
EC50/72 h	0.16 mg/l (Pseudokirchneriella subcapitata) (OECD 201)	

### · 12.2 Persistence and degradability No further relevant information available.

### Degree of elimination:

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

OECD 301C 80-90 % (28 d)

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OECD 301E >70 % (28 d) OECD 302B | 100 % (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 For information on endocrine disrupting properties see section 11.
- 12.7 Other adverse effects
- Additional ecological information:
- · 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 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 product does not contain organically bounded halogens (AOX-free).

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.

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

### **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.
- REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3, 55
- 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.

A product information sheet can be provided if reques

### · 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.

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H336 May cause drowsiness or dizziness.

H400 Very toxic to aquatic life.

H411 Toxic to aquatic life with long lasting effects.

H412 Harmful to aquatic life with long lasting effects.

### Classification according to Regulation (EC) No 1272/2008

Serious eye damage/irritation

Hazardous to the aquatic environment - long-term (chronic) aquatic hazard

The classification of the mixture is generally based on the calculation method using substance data according to Regulation (EC) No 1272/2008.

### Contact:

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

productsafety.management.de@karcher.com

· Version number of previous version: 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

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 (RÈACH)

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

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 - 339.0RM 99/4 2.736