# Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 13.12.2023

Version number 18 (replaces version 17)

Revision: 13.12.2023

#### SECTION 1: Identification of the substance/mixture and of the company/undertaking · 1.1 Product identifier · Trade name: solar-clean · UFI: 6GH4-60YR-500Y-1TN9 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 Cleaning material/ Detergent · 1.3 Details of the supplier of the safety data sheet · Manufacturer/Supplier: Pramol-Chemie AG Industriestrasse 3 CH-9602 Bazenheid/SG Tel +41 71 931 70 30 Fax +41 71 931 44 54 · Further information obtainable from: Abteilung für Produktsicherheit info@pramol.com Tel. 071 931 70 30 · 1.4 Emergency telephone number: Centre suisse d'information toxicologique, Zurich +41 (0)44 251 51 51 ou 145 (depuis la Suisse) Schweizerisches Toxikologisches Informationszentrum, Zürich +41 (0)44 251 51 51 oder aus der Schweiz: Tel 145 Centro Svizzero d'informazione tossicologica +41 (0)44 251 51 51 o dalla Svizzera: Tel 145 **SECTION 2: Hazards identification** · 2.1 Classification of the substance or mixture Classification according to Regulation (EC) No 1272/2008 Skin Irrit. 2 H315 Causes skin irritation. Eve Irrit. 2 H319 Causes serious eve irritation. · 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 GHS07 · Signal word Warning · Hazard statements H315 Causes skin irritation. H319 Causes serious eye irritation. · Precautionary statements P102 Keep out of reach of children. P280 Wear protective gloves/protective clothing/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. P332+P313 If skin irritation occurs: Get medical advice/attention. P362+P364 Take off contaminated clothing and wash it before reuse. · Results of PBT and vPvB assessment · **PBT:** Not applicable. · vPvB: Not applicable.

(Contd. on page 2)

Page 2/7

Safety data sheet according to 1907/2006/EC, Article 31

Printing date 13.12.2023

Version number 18 (replaces version 17)

Revision: 13.12.2023

Trade name: solar-clean

(Contd. of page 1)

SECTION 3: Composition/information on ingredients
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<sup>· 3.2</sup> Mixtures

• Description: Mixture of substances listed below with nonhazardous additions.

· Dangerous components:		
CAS: 112-34-5 EINECS: 203-961-6 Reg.nr.: 01-2119475104-44	2-(2-butoxyethoxy)ethanol	2.5-5%
CAS: 141-43-5 EINECS: 205-483-3 Reg.nr.: 01-2119486455-28	2-aminoethanol Skin Corr. 1B, H314; $\bigcirc$ Acute Tox. 4, H302; Acute Tox. 4, H312; Acute Tox. 4, H332 Specific concentration limit: STOT SE 3; H335: $C \ge 5 \%$	≥2.5-<5%
CAS: 7320-34-5 EINECS: 230-785-7 Reg.nr.: 01-2119489369-18	tetrapotassium pyrophosphate	<i>≤</i> 2.5%
• Additional information: For the wording of the listed hazard phrases refer to section 16.		

## **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: 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**

- Suitable extinguishing agents: Use fire extinguishing methods suitable to surrounding conditions.
- 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.

## **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.
- 6.3 Methods and material for containment and cleaning up:
- Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
- 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 No special precautions are necessary if used correctly.

· Information about fire - and explosion protection: No special measures required.

(Contd. on page 3)

<sup>5.1</sup> Extinguishing media

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Safety data sheet

according to 1907/2006/EC, Article 31

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Version number 18 (replaces version 17)

Revision: 13.12.2023

Trade name: solar-clean

(Contd. of page 2)

GB

- · 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: Not required.
- Further information about storage conditions: None.
- Storage class: 12
- 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/m<sup>3</sup>, 15 ppm Long-term value: 67.5 mg/m<sup>3</sup>, 10 ppm

11 12 5 2 amin orthanol

141-43-5 2-aminoethanol

WEL Short-term value: 7.6 mg/m<sup>3</sup>, 3 ppm Long-term value: 2.5 mg/m<sup>3</sup>, 1 ppm

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• Additional information: The lists valid during the making were used as basis.

#### · 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: Wash hands before breaks and at the end of work.
- · Respiratory protection: Not required.
- · Hand protection

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

*Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.* 

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

· Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

· 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 Goggles recommended during refilling

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

General Information		
Physical state	Fluid	
Colour:	Light blue	
Odour:	Characteristic	
Odour threshold:	Not determined.	
Melting point/freezing point:	Undetermined.	
Boiling point or initial boiling point and	boiling	
range	100 °C	
Flammability	Not applicable.	

Page 4/7

Safety data sheet according to 1907/2006/EC, Article 31

Printing date 13.12.2023

Version number 18 (replaces version 17)

Revision: 13.12.2023

Trade name: solar-clean

	(Contd. of page
· Lower and upper explosion limit	
· Lower:	Not determined.
· Upper:	Not determined.
· Flash point:	Not applicable.
Decomposition temperature:	Not determined.
· pH at 20 °C	12
Viscosity:	
Kinematic viscosity	Not determined.
Dynamic:	Not determined.
· Solubility	
water:	Fully miscible.
· Partition coefficient n-octanol/water (log value)	Not determined.
· Vapour pressure at 20 °C:	23 hPa
· Density and/or relative density	
· Density at 20 °C:	$1.032 \text{ g/cm}^3$
· Relative density	Not determined.
· Vapour density	Not determined.
1 1	
• 9.2 Other information • Appearance:	
· Form:	Fluid
Important information on protection of health an environment, and on safety.	u
Ignition temperature:	Product is not selfigniting.
· Explosive properties:	Product does not present an explosion hazard.
Solvent separation test:	
· Organic solvents:	6.0 %
· Water:	86.8 %
Solids content:	3.5 %
Change in condition	
· Evaporation rate	Not determined.
Information with regard to physical hazard classe	25
· 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	
gases 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 No further relevant information available.

· 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.

(Contd. on page 5)

GB

Page 5/7

Safety data sheet according to 1907/2006/EC, Article 31

Printing date 13.12.2023

Version number 18 (replaces version 17)

Revision: 13.12.2023

(Contd. of page 4)

Trade name: solar-clean

- 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.
- Skin corrosion/irritation Causes skin irritation.
- Serious eye damage/irritation Causes serious eye irritation.
- 11.2 Information on other hazards
- · Endocrine disrupting properties

None of the ingredients is listed.

## **SECTION 12: Ecological information**

- · 12.1 Toxicity
- Aquatic toxicity: No further relevant information available.
- 12.2 Persistence and degradability No further relevant information available.
- 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:
- · General notes:

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water

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.

## **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.

- · Uncleaned packaging:
- Recommendation: Disposal must be made according to official regulations.
- Recommended cleansing agents: Water, if necessary together with cleansing agents.

SECTION 14: Transport informa	tion	
· 14.1 UN number or ID number · ADR, ADN, IMDG, IATA	Void	
· 14.2 UN proper shipping name · ADR, ADN, IMDG, IATA	Void	
		(Contd. on page 6)

Page 6/7

# Safety data sheet according to 1907/2006/EC, Article 31

Printing date 13.12.2023

Version number 18 (replaces version 17)

Revision: 13.12.2023

Trade name: solar-clean

	(Contd. of page 5)
· 14.3 Transport hazard class(es)	
· ADR, ADN, IMDG, IATA · Class	Void
· 14.4 Packing group · ADR, IMDG, IATA	Void
· 14.5 Environmental hazards: · Marine pollutant:	No
· 14.6 Special precautions for user	Not applicable.
• 14.7 Maritime transport in bulk according to IM instruments	<b>O</b> 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

None of the ingredients is listed.

· Directive 2012/18/EU

· Named dangerous substances - ANNEX I None of the ingredients is listed.

· Regulation (EC) No 648/2004 on detergents / Labelling for contents

phosphates, non-ionic surfactants, perfumes

<5%

· 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.

#### · Relevant phrases

H302 Harmful if swallowed.

H312 Harmful in contact with skin.

H314 Causes severe skin burns and eye damage.

H319 Causes serious eye irritation.

H332 Harmful if inhaled.

H335 May cause respiratory irritation.

• 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) PBT: Persistent, Bioaccumulative and Toxic

(Contd. on page 7)

Safety data sheet according to 1907/2006/EC, Article 31

Version number 18 (replaces version 17)

Printing date 13.12.2023

#### Trade name: solar-clean

vPvB: very Persistent and very Bioaccumulative Acute Tox. 4: Acute toxicity – Category 4 Skin Corr. 1B: Skin corrosion/irritation – Category 1B Skin Irrit. 2: Skin corrosion/irritation – Category 2 Eye Irrit. 2: Serious eye damage/eye irritation – Category 2 • \* **Data compared to the previous version altered.**  Revision: 13.12.2023

(Contd. of page 6)

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