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

Printing date 03.03.2023

Version number 3 (replaces version 2)

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

- · 1.1 Product identifier
- · Trade name: VehiclePro Drying Aid RM 829 Classic
- · UFI: H850-10V9-Y007-6P0Y
- 1.2 Relevant identified uses of the substance or mixture and uses advised against Restricted to professional users.
- · Application of the substance / the mixture Drying Aid
- · 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

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

Eye Irrit. 2 H319 Causes serious eye irritation.

- · 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

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· Hazard statements

H319 Causes serious eye irritation.

· Precautionary statements

Wash hands thoroughly after handling. P264 Wear eye protection / face protection. P280

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.

· 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.

CAS: 112-34-5	2-(2-butoxyethoxy)ethanol	
EINECS: 203-961-6 Index number: 603-096-00-8 Reg.nr.: 01-2119475104-44-xxxx	© Eye Irrit. 2, H319	
CAS: 9004-78-8	Phenol, ethoxylated	5-10%
CAS: 1335202-95-3 EC number: 931-216-1 Reg.nr.: 01-2119472309-33	Fatty acids, C18 unsatd., reaction productswith triethanolamine, di-Me sulfate-quaternized ♦ Skin Irrit. 2, H315; Eye Irrit. 2, H319 Specific concentration limits: Skin Irrit. 2; H315: C ≥ 28 % Eye Irrit. 2; H319: C ≥ 28 %	1-5%
0.00, 4.474044, 74, 7	<u> </u>	>0.5.00/
CAS: 1474044-71-7 EC number: 939-685-4 Reg.nr.: 01-2119983493-26	1-propanaminium, 2-hydroxy-N-(2-hydroxypropyl) -N-N-dimethyl, diesterswithvegetable-oil fatty acids, Me sulfates Eye Dam. 1, H318; Skin Irrit. 2, H315; Aquatic Chronic 3, H412	≥2.5-<3%
CAS: 14858-73-2 EINECS: 238-925-9 Reg.nr.: 01-2119980070-45	Bis(2-ethylhexyl)carbonate Skin Irrit. 2, H315	1-5%
CAS: 111-76-2 EINECS: 203-905-0 Index number: 603-014-00-0 Reg.nr.: 01-2119475108-36-XXXX	2-butoxyethanol Acute Tox. 4, H302; Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319 ATE: LD50 oral: 1200 mg/kg	1-5%

· 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.

 \cdot 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:

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). 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.

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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	it require mon	itoring at	the workplace:
--------------------------------------	-------------------	----------------	------------	----------------

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

IOELV Short-term value: 101.2 mg/m³, 15 ppm

Long-term value: 67.5 mg/m³, 10 ppm

111-76-2 2-butoxyethanol

IOELV Short-term value: 246 mg/m³, 50 ppm

Long-term value: 98 mg/m³, 20 ppm

Skin

· 8.2 Exposure controls

- · Appropriate engineering controls No further data; see item 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 Not required.
- · 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 Not required.

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· 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: Blue · Odour: Pine

· Odour threshold: Not determined.

· Melting point/freezing point: 0°C

Boiling point or initial boiling point and boiling

100 °C range

· Flammability Not applicable.

· Lower and upper explosion limit

· Lower: Not determined. · Upper: Not determined. · Flash point: Not applicable · Ignition temperature: not applicable · Decomposition temperature: Not determined.

· pH at 20 °C 3.3 · pH-value 1 %: 6-8

· Viscosity:

· Kinematic viscosity Not determined. · dynamic: Not determined.

Solubility

· Water: Fully miscible · Partition coefficient n-octanol/water (log value) Not determined. Not determined.

· Vapour pressure:

· Density and/or relative density · Density at 20 °C: 1.0038 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 and environment, and on safety.

· Auto-ignition temperature: Product is not selfigniting.

· Explosive properties: Product does not present an explosion hazard.

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		(Contd. of page
Solvent content:		
Solids content:	8.3 %	
Change in condition		
Evaporation rate	Not determined.	
Information with regard to physical haza	rd	
classes		
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 flamm	able	
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 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.

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		(Contd. of page 6)	
· LD/LC50 v	· LD/LC50 values relevant for classification:		
112-34-5 2	2-(2-bu	toxyethoxy)ethanol	
Oral	LD50	2410 mg/kg (mouse) (OECD 401)	
Dermal	LD50	2764 mg/kg (Rabbit)	
9004-78-8	Pheno	ol, ethoxylated	
Oral	LD50	500-2000 mg/kg (Rat)	
Dermal	LD50	2140 mg/kg (Rabbit)	
111-76-2 2	111-76-2 2-butoxyethanol		
Oral	LD50	1200 mg/kg (ATE)	
Inhalative	LCLo	>3.1 ppm (consumer)	

- · 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

556-67-2 octamethylcyclotetrasiloxane

List II, III

SECTION 12: Ecological information

· 12.1 Toxicity

· 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)
1474044-71-7 1-propanaminium, 2-hydroxy-N-(2-hydroxypropyl) -N-N-dimethyl, diesterswithvegetable- oil fatty acids, Me sulfates	
LC50/96 h	>10 mg/l (Cyprinus carpio)
EC50/48 h	>8.6 mg/l (Daphnia magna)
EC50/72 h (static)	1.2 mg/l (Pseudokirchneriella subcapitata)
EC50	100 mg/l /6 d (STP)
NOEC	0.686 mg/l /35 d (Pimephales promelas)
	0.39 mg/l /72 h (Pseudokirchneriella subcapitata) (OECD 201)



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111-76-2 2-butox	111-76-2 2-butoxyethanol		
LC50/96 h	1474 mg/l (Oncorhynchus mykiss) (OECD 203)		
EC50/48 h	1550 mg/l (Daphnia magna) (OECD 202)		
EC50/72 h	1840 mg/l (Pseudokirchneriella subcapitata) (OECD 201)		
EC0 (16 h)	700 mg/l (Pseudomonas putida)		
NOEL (21 d)	100 mg/l (Daphnia magna) (OECD 211)		
NOEC (static)	NOEC (static) 286 mg/l /72 h (Pseudokirchneriella subcapitata)		

- 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 For information on endocrine disrupting properties see section 11.
- · 12.7 Other adverse effects
- · Additional ecological information:
- · General notes:

The product does not contain organic complexing agents.

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).

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

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.

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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	n
· 14.1 UN number or ID number · ADR, ADN, IMDG, IATA	Void
· 14.2 UN proper shipping name · ADR, ADN, 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.
· 14.7 Maritime transport in bulk accord IMO instruments	ing to 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.

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· Relevant phrases

H302 Harmful if swallowed.

H315 Causes skin irritation.

H318 Causes serious eye damage.

H319 Causes serious eve irritation.

H332 Harmful if inhaled.

H412 Harmful to aquatic life with long lasting effects.

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

Serious eye damage/eye irritation 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.kaercher.com

· Version number of previous version: 2

· 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)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent. Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

Acute Tox. 4: Acute toxicity - Category 4

Skin Irrit. 2: Skin corrosion/irritation – Category 2 Eye Dam. 1: Serious eye damage/eye irritation - Category 1

Eye Irrit. 2: Serious eye damage/eye irritation – Category 2

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

Data compared to the previous version altered.

0.011-050-0

RM829Classic/1

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