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

Printing date 01.04.2023

Version number 7 (replaces version 6)

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

- · 1.1 Product identifier
- · Trade name: PressurePro Facade Cleaner, Gel RM 43
- 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

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.

- · 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 pictograms



- · Signal word Danger
- · Hazard-determining components of labelling:

potassium silicate sodium hydroxide tetradecyl dimethylaminoxide sodium metasilicate

· Hazard statements

H290 May be corrosive to metals.

H314 Causes severe skin burns and eye damage.

· Precautionary statements

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 for showerl.

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.

· 2.3 Other hazards

The product does not contain any organic halogen compounds (AOX), nitrates, heavy metal compounds.

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

SECTION 3: Composition/information on ingredients

- · 3.2 Mixtures
- · Description: Cleaning agent

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Dengaraus components:		Contd. of pa
Dangerous components:		
CAS: 67656-24-0	sodium 2-butoxyethyl sulphate	1-5%
EINECS: 266-840-7		
Reg.nr.: 01-2120781516-47-0000	Specific concentration limit: Eye Dam. 1; H318: C ≥ 50 %	
CAS: 1310-73-2	sodium hydroxide	≥2-<5°
EINECS: 215-185-5	Met. Corr.1, H290; Skin Corr. 1A, H314	-
Index number: 011-002-00-6	Specific concentration limits: Skin Corr. 1A; H314: C ≥ 5 %	
Reg.nr.: 01-2119457892-27-xxxx	Skin Corr. 1B; H314: 2 % ≤ C < 5	
	%	
	Skin Irrit. 2; H315: 0.5 % ≤ C < 2	
	%	
	Eye Irrit. 2; H319: 0.5 % ≤ C < 2 %)
CAS: 1312-76-1	potassium silicate	≥1-<3°
EINECS: 215-199-1	Met. Corr.1, H290; Skin Corr. 1B, H314; Eye Dam. 1, H318;	-
Reg.nr.: 01-2119456888-17		
CAS: 3332-27-2	tetradecyl dimethylaminoxide	≥1-<2.5
EINECS: 222-059-3	Eye Dam. 1, H318; 🍪 Aquatic Acute 1, H400; Aquatic	-
Reg.nr.: 01-2119949262-37-0000	Chronic 2, H411; (1) Acute Tox. 4, H302; Skin Irrit. 2, H315	
CAS: 10213-79-3	sodium metasilicate	≥1-<5°
EINECS: 229-912-9	♠ Met. Corr.1, H290; Skin Corr. 1B, H314; ♦ STOT SE 3,	-
Index number: 014-010-00-8	H335	
Reg.nr.: 01-2119449811-37		
CAS: 1310-58-3	potassium hydroxide	≥0.5-≤1
EINECS: 215-181-3	Met. Corr.1, H290; Skin Corr. 1A, H314; (1) Acute Tox. 4,	-
Index number: 019-002-00-8	H302	
Reg.nr.: 01-2119487136-33-xxxx	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 %	
Regulation (EC) No 648/2004	on detergents / Labelling for contents	
phosphates		≥5 - <15
anionic surfactants, soap, non-ionic surfactants		

SECTION 4: First aid measures

- · 4.1 Description of first aid measures
- · General information

Involve doctor immediately.

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.

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· After skin contact

If skin irritation continues, consult a doctor.

Immediately wash with water and soap and rinse thoroughly.

Immediately rinse with water.

· After eve contact

Seek medical treatment.

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.

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.

\cdot 5.2 Special hazards arising from the substance or mixture

In case of fire, the following can be released:

Carbon monoxide (CO)

· 5.3 Advice for firefighters

· Protective equipment:

Wear self-contained respiratory protective device.

Wear fully protective suit.

· 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:

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.

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Dispose contaminated material as waste according to item 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

Avoid splashes or spray in enclosed areas.

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.
- · 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

311 33110	on control paramotors				
· Ingredients with limit values that require monitoring at the workplace:					
1310-73-2 sodium hydroxide					
WEL Sho	WEL Short-term value: 2 mg/m³				
1310-58-3	1310-58-3 potassium hydroxide				
WEL Sho	WEL Short-term value: 2 mg/m³				
· DNELs					
1310-73-2 sodium hydroxide					
Inhalative	DNEL	1 mg/m3 (employee)			
		1 mg/m3 (consumer)			

- · 8.2 Exposure controls
- · Appropriate engineering controls No further data; see item 7.

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- 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

Check the permeability prior to each anewed use of the glove.



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.

- · For the permanent contact gloves made of the following materials are suitable:
- * butvl rubber 0.7 mm, 480 min (EN 374)
- · As protection from splashes gloves made of the following materials are suitable:
- * nitril rubber 0,4 mm, 30 min (EN 374)
- · Eye/face protection



Tightly sealed goggles (EN 166)

· Body protection:

Alkaline resistant protective clothing Boots

SECTION 9: Physical and chemical properties

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

· Physical state

Fluid

· Colour:

Yellow

· Odour:

Specific type Not determined.

· Odour threshold:

-7 °C

Melting point/freezing point:Boiling point or initial boiling point and boiling

100 °C

range · Flammability

Not applicable.

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(Contd. of page 6) · Lower and upper explosion limit Not determined. · Lower: · Upper: Not determined. · Flash point: Not applicable · Ignition temperature: not applicable Not determined. · Decomposition temperature: · pH at 20 °C 13.8 1 % 12 · pH-value 1 %: 11-12 · Viscosity: Kinematic viscosity Not determined. · dynamic at 20 °C: 6 mPas · 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: 1.153 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. · Solvent content: 25.0 % · Solids content: · Change in condition · Evaporation rate Not determined. · Information with regard to physical hazard 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

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Void

Trade name: PressurePro Facade Cleaner, Gel RM 43

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· Self-heating substances and mixtures

 \cdot Substances and mixtures, which emit flammable

gases in contact with water Void
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

Acute	Acute toxicity based on available data, the classification chieffa are not met.				
· LD/LC5	· LD/LC50 values relevant for classification:				
3332-27-2 tetradecyl dimethylaminoxide					
Oral	LD50	1495 mg/kg (Rat)			
10213-7	10213-79-3 sodium metasilicate				
Dermal	LD50	>5000 mg/kg (Rat)			
1310-58	1310-58-3 potassium hydroxide				
Oral	LD50	333 mg/kg (Rat)			

- · 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.

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- · 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

None of the ingredients is listed.

SECTION 12: Ecological information

· 12.1 Toxicity

· Aquatic tox	· Aquatic toxicity:			
1310-73-2 sodium 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)			
3332-27-2 tetradecyl dimethylaminoxide				
LC50	2.4 mg/l (fish)			
EC50	0.19 mg/l (F16)			
	2.64 mg/l (Daphnia magna)			
NOEC	0.067 mg/l (F16)			
10213-79-3 s	10213-79-3 sodium metasilicate			
LC50/96 h	210 mg/l (Brachydanio rerio)			
EC50/48 h	1700 mg/l (Daphnia magna)			
EC50/72 h	>345 mg/l (Desmodesmus subspicatus) (DIN 38412 T9)			
EC50/96 h	216 mg/l (Daphnia magna)			
EC50/3h	>100 mg/l (STP) (OECD 209 / ISO 8192)			
1310-58-3 po	1310-58-3 potassium hydroxide			
LC50/96 h	80 mg/l (Gambusia affinis)			
	165 mg/l (Poecilia reticulata)			

- 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.

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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: 204000 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 organic complexing agents.

The product does not contain organically bounded halogens (AOX-free).

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

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

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. 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

- · 14.1 UN number or ID number
- · ADR, IMDG, IATA UN1824
- · 14.2 UN proper shipping name
- · **ADR** 1824 SODIUM HYDROXIDE SOLUTION

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(Contd. of page 10) · IMDG, IATA SODIUM HYDROXIDE SOLUTION · 14.3 Transport hazard class(es) · ADR · Class 8 (C5) Corrosive substances. · Label · IMDG, IATA · Class 8 Corrosive substances. · Label · 14.4 Packing group · ADR, IMDG, IATA Ш · 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 · Segregation Code SG35 Stow "separated from" SGG1-acids · 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 · Tunnel restriction code Ε · IMDG · Limited quantities (LQ) 5L (Contd. on page 12)



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· 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 1824 SODIUM HYDROXIDE SOLUTION, 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. A product information sheet can be provided if requested.

· Relevant phrases

H290 May be corrosive to metals.

H302 Harmful if swallowed.

H314 Causes severe skin burns and eye damage.

H315 Causes skin irritation.

H318 Causes serious eye damage.

H335 May cause respiratory irritation.

H400 Very toxic to aquatic life.

H411 Toxic 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)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

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PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative 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

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

· * Data compared to the previous version altered.

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RM 43/3

2.344