Revision: 05.08.2021



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

*Version number 4 (replaces version 3)* 

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

- · 1.1 Product identifier
- · Trade name: TankPro Cleaner, acidic RM 870
- · UFI: QYG0-A04X-8003-VAV1
- 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 Detergent
- · 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

Alfred Kärcher SE & Co. KG Alfred-Kärcher-Str. 28-40 D - 71364 Winnenden

Postfach 160

D - 71349 Winnenden

*Tel.*: +49-7195-14-0 *Fax*: +49-7195-14-2212

www.karcher.com

· Further information obtainable from:

Department CSD-D 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. 1A 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 CLP regulation.

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#### · Hazard pictograms



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

sulphuric acid phosphoric acid

· Hazard statements

H290 May be corrosive to metals.

H314 Causes severe skin burns and eye damage.

· Precautionary statements

P280 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 [or shower].

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.

· Additional information:

Product contains: Reportable explosives precursors. Making available, introduction, possession and use according to Regulation (EU) 2019/1148, Article 9.

- · 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.

· Dangerous components:		
CAS: 7664-38-2	phosphoric acid	≥20-<25%
EINECS: 231-633-2	Met. Corr.1, H290; Skin Corr. 1B, H314; Eye	
Index number: 015-011-00-6	Dam. 1, H318	
Reg.nr.: 01-2119485924-24-xx	xSpecific concentration limits:	
	Skin Corr. 1B; H314: C ≥ 25 %	
	Skin Irrit. 2; H315: $10 \% \le C < 25 \%$	
	Eye Dam. 1; H318: C ≥ 25 %	
	Eye Irrit. 2; H319: $10 \% \le C < 25 \%$	
CAS: 7664-93-9	sulphuric acid	≥10-<15%
EINECS: 231-639-5	📀 Skin Corr. 1A, H314; Eye Dam. 1, H318	
Index number: 016-020-00-8	Specific concentration limits:	
Reg.nr.: 02-2119752444-38-	<i>Skin Corr. 1A; H314: C</i> ≥ 15 %	
0000	Skin Irrit. 2; H315: $5 \% \le C < 15 \%$	
	Eye Irrit. 2; H319: $5 \% \le C < 15 \%$	
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C. C		(Contd. of page
CAS: 75-75-2	methanesulphonic acid	≥1-<5%
EINECS: 200-898-6	♠ Met. Corr.1, H290; Skin Corr. 1B, H314;	
Index number: 607-145-00-4	(1) Acute Tox. 4, H302; Acute Tox. 4, H312; STOT	
Reg.nr.: 01-2119491166-34	SE 3, H335	
CAS: 78330-20-8	fatty alcohol ethoxylate	≥1-<3%
	📀 Eye Dam. 1, H318; 🗘 Acute Tox. 4, H302	
CAS: 308062-28-4	dodecyldimethylamine oxide	≥0.1-<0.25%
EC number: 931-292-6	📀 Eye Dam. 1, H318; 🚱 Aquatic Acute 1, H400;	
Reg.nr.: 01-2119490061-47-	Aquatic Chronic 2, H411; (1) Acute Tox. 4, H302;	
XXXX	Skin Irrit. 2, H315	
Regulation (EC) No 648/2004	on detergents / Labelling for contents	•
phosphates		≥15 - <30%
non-ionic surfactants, amphoteric surfactants		<5%

### SECTION 4: First aid measures

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

- · After skin contact Immediately wash with water and soap and rinse thoroughly.
- · After eye contact 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.

- · For safety reasons unsuitable extinguishing agents Water with full jet.
- $\cdot$  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.

EH



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### 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:

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).

Use neutralising agent.

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

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:

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:

#### 7664-38-2 phosphoric acid

IOELV Short-term value: 2 mg/m³
Long-term value: 1 mg/m³

#### · DNELs

## 308062-28-4 dodecyldimethylamine oxide

Dermal DNEL 11 mg/kg\*d (employee)
Inhalative DNEL 15.5 mg/m3 (Employee)

- · 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

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.

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: Yellow

· Odour: Product specific · Odour threshold: Not determined.

• Melting point/freezing point: -5 °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: Not applicable

· Auto-ignition temperature: Product is not selfigniting.

· Decomposition temperature: Not determined.

• pH at 20 °C 0 • pH-value 1 %: 1-2

· Viscosity:

Kinematic viscositydynamic:Not determined.Not determined.

· Solubility

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

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• 1	Density	and/	or rel	ative a	lensity
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· Density at 20 °C: 1.256 g/cm<sup>3</sup> · Relative density Not determined. · Vapour density Not determined.

### · 9.2 Other information

· Appearance:

· Form: Fluid

· Important information on protection of health

and environment, and on safety.

· Ignition temperature: not applicable

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

· Solvent content:

· **VOC** (**EC**) 0.00 %

· 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 · Self-heating substances and mixtures Void · Substances and mixtures, which emit flammable Void gases in contact with water · Oxidising liquids Void Void · Oxidising solids

· Organic peroxides Corrosive to metals May be 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 Reacts with light alloys to form hydrogen
- · 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



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## 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	· LD/LC50 values relevant for classification:		
7664-38-2	7664-38-2 phosphoric acid		
Oral	LD50	2,600 mg/kg (Rat)	
Dermal	LD50	2,740 mg/kg (Rabbit)	
Inhalative	LC50	850 mg/kg (Rat)	
7664-93-9	sulphu	ric acid	
Oral	LD50	2,140 mg/kg (Rat)	
75-75-2 m	ethanes	sulphonic acid	
Oral	LD50	649 mg/kg (Rat)	
Dermal	LD50	>1,000 mg/kg (Rat)	
78330-20-	78330-20-8 fatty alcohol ethoxylate		
Oral	ATE	500 mg/kg (Rat)	
308062-28	308062-28-4 dodecyldimethylamine oxide		
Oral	LD50	1,064 mg/kg (Rat)	
Dermal	LD50	>2,000 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.
- · 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

EC50/48 h >10-<100 mg/l (Aquatic invertebrates)

· 12.1 Toxici	· 12.1 Toxicity		
· Aquatic tox	· Aquatic toxicity:		
7664-38-2 р	7664-38-2 phosphoric acid		
LC50/96 h	138 mg/l (Gambusia affinis)		
EC50/48 h	>100 mg/l (Daphnia magna) (OECD 202)		
7664-93-9 s	7664-93-9 sulphuric acid		
EC50/48 h	70-80 mg/l (fish)		
EC50/24 h	29 mg/l (Daphnia magna)		
78330-20-8	78330-20-8 fatty alcohol ethoxylate		
LC50/96 h	>10-100 mg/l (Leuciscus idus)		

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EC50/72 h	>10-<100 mg/l (Aquatic plants)		
308062-28-	308062-28-4 dodecyldimethylamine oxide		
LC50/96 h	2.67 mg/l (fish)		
EC50/48 h	3.1 mg/l (Daphnia magna)		
EC10/18 h	24 mg/l (Pseudomonas putida)		
ErC50/72h	0.143 mg/l (Pseudokirchneriella subcapitata)		
NOEC	0.42 mg/l (Pimephales promelas)		
	0.067  mg/l  (F16)		
	0.7 mg/l (Daphnia magna)		

- 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:
- · COD-value: 65.000 mg/l
- · General notes:

The product does not contain organic complexing agents.

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

Do not allow product to reach ground water, water course or sewage system.

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

Danger to drinking water if even small quantities leak into the ground.

Rinse off of bigger amounts into drains or the aquatic environment may lead to decreased pH-values. A low pH-value harms aquatic organisms. In the dilution of the use-level the pH-value is considerably increased, so that after the use of the product the aqueous waste, emptied into drains, is only low water-dangerous.

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.

### 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

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- · Uncleaned packaging:
- · Recommendation: Non contaminated packagings may be recycled.
- $\cdot \textit{Recommended cleansing agents:} \ \textit{Water, if necessary together with cleaning agents.}$

14.1 UN number or ID number	
ADR, IMDG, IATA	UN3264
14.2 UN proper shipping name	
ADR	3264 CORROSIVE LIQUID, ACIDIC, INORGANIO
	N.O.S. (sulphuric acid, PHOSPHORIC ACII
	SOLUTION)
IMDG, IATA	CORROSIVE LIQUID, ACIDIC, INORGANIC
	N.O.S. (SULPHURIC ACID, PHOSPHORIC ACID
	SOLUTION)
14.3 Transport hazard class(es)	
ADR	
8	
Class	8 (C1) Corrosive substances.
Label	8
IMDG, IATA	
Class	8 Corrosive substances.
Label	8
14.4 Packing group	
ADR, IMDG, IATA	II
14.5 Environmental hazards:	
Marine pollutant:	No
14.6 Special precautions for user	Warning: Corrosive substances.
Hazard identification number (Kemler code):	
EMS Number:	F- $A$ , $S$ - $B$
Segregation groups	Acids
Stowage Category	B
Stowage Code	SW2 Clear of living quarters.
14.7 Maritime transport in bulk according to	
IMO instruments	Not applicable.



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· Transport/Additional information:	
$\cdot$ ADR	
· Limited quantities (LQ)	1L
· Excepted quantities (EQ)	Code: E2
	Maximum net quantity per inner packaging: 30 ml
	Maximum net quantity per outer packaging: 500 ml
· Transport category	2
· Tunnel restriction code	E
· <i>IMDG</i>	
· Limited quantities (LQ)	1L
· Excepted quantities (EQ)	Code: E2
	Maximum net quantity per inner packaging: 30 ml
	Maximum net quantity per outer packaging: 500 ml
· UN "Model Regulation":	UN 3264 CORROSIVE LIQUID, ACIDIC
, , , , , , , , , , , , , , , , , , ,	INORGANIC, N.O.S. (SULPHURIC ACID
	PHOSPHORIC ACID, SOLUTION), 8, II

# SECTION 15: Regulatory information

- $\cdot$  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
- · DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment Annex II

None of the ingredients is listed.

- · REGULATION (EU) 2019/1148
- · Annex I RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))

None of the ingredients is listed.

· Annex II - REPORTABLE EXPLOSIVES PRECURSORS

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.

H312 Harmful in contact with skin.

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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.

· Classification according to Regulation (EC) No 1272/2008		
Corrosive to metals	On basis of test data	
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.	

· Department issuing SDS: CSD-D

· Contact:

Department CSD-D Tel.: +49-7195-14-0

productsafety.management@de.kaercher.com

· Version number of previous version: 3

· 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)

VOC: Volatile Organic Compounds (USA, EU)

DNEL: Derived No-Effect Level (REACH)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

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

 $\cdot$  \* Data compared to the previous version altered.

· 0·011-141·0 RM 870/4 2·429

EU