

Acid Membrane Cleaner

Print date 13.04.2023

Revision date 15.03.2023

Version 1.0 (en)

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

1.1 Product identifier

Trade name/designation Acid Membrane Cleaner

Hazard components

citric-acid

1.2 Relevant identified uses of the substance or mixture and uses advised against

Sector of uses [SU]

SU21 Consumer uses: Private households (= general public = consumers)

Product Categories [PC]

PC35 Washing and cleaning products

Use of the substance/mixture

cleaning agent for water tanks

1.3 Details of the supplier of the safety data sheet

Distribution Europe

Katadyn Deutschland GmbH

Hessenring 23

D-64546 Mörfelden-Walldorf

Department responsible for information:

This number is only available at office times.

Telephone +49 6105 45 67 89

Manufacturer / Distribution Switzerland

Katadyn Produkte AG

Pfäffikerstrasse 37

CH-8310 Kempthal

Telephone +41 44 839 21 11

Department responsible for information:

This number is only available at office times.

Telephone +41 44 839 21 11

E-mail (competent person):

info@katadyn.ch

1.4 Emergency telephone number

Swiss toxicological Information Center 145

Europe: GBK GmbH +49 (0)6132-84463

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 [CLP] Classification procedure

Eye Irrit. 2, H319

STOT SE 3, H335

Hazard statements for health hazards

H319 Causes serious eye irritation.

H335 May cause respiratory irritation.

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Remark

The classification is according to the latest editions of the EU-lists, and extended by company and literature data.
The mixture is classified as hazardous according to regulation (EC) No 1272/2008 [CLP].

2.2 Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard components

citric-acid

Hazard pictograms



GHS07

Signal word

Warning

Hazard statements

H319 Causes serious eye irritation.
H335 May cause respiratory irritation.

Precautionary statements

P102 Keep out of reach of children.
P261 Avoid breathing dust.
P280 Wear protective gloves/protective clothing and eye/face protection.
P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
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.
P312 Call a POISON CENTER/doctor/if you feel unwell.
P501 Contents / container hand over to an approved waste disposal facility.

2.3 Other hazards

Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

SECTION 3: Composition / information on ingredients

3.2 Mixtures

Hazardous ingredients

CAS No.	EC No.	Substance name	Concentration	Classification according to Regulation (EC) No 1272/2008 [CLP]	SCL/ M/ ATE
77-92-9	201-069-1	citric-acid	100 weight-%	Eye Irrit. 2; H319 STOT SE 3; H335	

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SECTION 4: First aid measures

4.1 Description of first aid measures

General information

Remove contaminated, saturated clothing immediately.

Symptoms may develop several hours following exposure; medical observation therefore necessary for at least 48 hours.

Following inhalation

Remove casualty to fresh air and keep warm and at rest.

In the event of symptoms refer for medical treatment.

Following skin contact

After contact with skin, wash immediately with plenty of water and soap.

In case of skin irritation, consult a physician.

After eye contact

After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately.

Following ingestion

Do NOT induce vomiting.

If swallowed seek medical advice immediately and show the doctor packing or label.

Rinse mouth thoroughly with water.

4.2 Most important symptoms and effects, both acute and delayed

No data available

4.3 Indication of any immediate medical attention and special treatment needed

No data available

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

alcohol resistant foam

Extinguishing powder

Carbon dioxide (CO₂)

Water spray jet

Unsuitable extinguishing media

Full water jet

5.2 Special hazards arising from the substance or mixture

Hazardous combustion products

In case of fire formation of dangerous gases possible.

Carbon monoxide

Carbon dioxide (CO₂)

5.3 Advice for firefighters

Special protective equipment for firefighters

In case of fire: Wear self-contained breathing apparatus.

Wear full chemical protective clothing.

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Additional information

The product itself does not burn.
Co-ordinate fire-fighting measures to the fire surroundings.
Do not inhale explosion and combustion gases.
Use water spray jet to protect personnel and to cool endangered containers.
Fire residues and contaminated firefighting water must be disposed of in accordance with the local regulations.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Avoid contact with skin and eyes.
Provide adequate ventilation.
Keep people away and stay on the upwind side.
Use personal protection equipment.

6.2 Environmental precautions

Inform responsible authority with penetration in waters or drains.
Do not allow to enter into surface water or drains.

6.3 Methods and material for containment and cleaning up

For containment

Ensure adequate ventilation.
After taking up the material dispose according to regulation.
Take up mechanically and send for disposal.

6.4 Reference to other sections

Safe handling: see section 7
Personal protection equipment: see section 8
Disposal: see section 13

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Protective measures

Avoid contact with skin and eyes.
Do not breathe dust.
Keep container tightly closed.
Avoid the formation and deposition of dust.
Use only in well-ventilated areas.
Keep the packing dry and well sealed to prevent contamination and absorption of humidity.
Take the usual precautions when handling chemicals.
Ensure adequate ventilation.

Advices on general occupational hygiene

Remove contaminated, saturated clothing immediately.
Keep away from food and drink.
Wash hands before breaks and after work.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep/Store only in original container.
Keep container tightly closed.

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Materials to avoid

Do not store together with:

Acid

Food and feedingstuffs

Further information on storage conditions

Keep container tightly closed in a cool, well-ventilated place.

7.3 Specific end use(s)

No data available

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

No data available

8.2 Exposure controls

Appropriate engineering controls

Technical measures to prevent exposure

Avoid the formation and deposition of dust.

No further data, see item 7.

Avoid contact with skin and eyes.

Care for thorough room ventilation, if necessary provide local air ventilation.

Personal protection equipment

Eye/face protection

safety goggles EN 166

Hand protection

Glove material specification [make/type, thickness, permeation time/life, wetting resistance]: Vitonkautschuk, Butylkautschuk, Level 6, 480 Min., EN 374

Please observe the glove manufacturer's instructions on permeability and rupture times as well as the specific workplace conditions.

Body protection:

No special measures necessary if used correctly.

Respiratory protection

Respiratory protection necessary at:

insufficient exhaust

prolonged exposure

Particle-filtering half mask, filter FFP2, EN 149

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state

Powder

Colour

white

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Odour
 odourless

Safety relevant basis data

	Value	Method	Source, Remark
Odour threshold:	not determined		
Melting point/freezing point	Melting point 153 °C		
Boiling point or initial boiling point and boiling range	not determined		
flammability	not determined		
Lower and upper explosion limit	not determined		
Flash point	not determined		
Auto-ignition temperature			The product ist not self-igniting.
Auto-ignition temperature			No data available.
Decomposition temperature	not determined		
pH	in delivery state 1.8 (25°C)		emulsion in water
Viscosity	not determined		
Solubility(ies)	Water solubility 1450 g/L (20°C)		soluble
Partition coefficient n-octanol/water (log value)	-1.8- -0.2		
Vapour pressure	0.0002 hPa (20°C)		
Density and/or relative density	Relative density 1.665 g/cm ³ (20°C)		
Relative vapour density	not determined		
particle characteristics	not determined		

9.2 Other information

Other safety characteristics

	Value	Method	Source, Remark
Explosive properties			

SECTION 10: Stability and reactivity

10.1 Reactivity

No data available

10.2 Chemical stability

Stable under normal conditions.

10.3 Possibility of hazardous reactions

Evolution of chlorine under influence of acids.

10.4 Conditions to avoid

No decomposition if used as directed.

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10.5 Incompatible materials

Acid
Oxidising agent, strong

10.6 Hazardous decomposition products

In case of fire formation of dangerous gases possible.
Hydrochloric gas
Chlorine
Chlorine compounds

SECTION 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity

Animal data

	Effective dose	Method, Evaluation	Source, Remark
Acute oral toxicity	LD50: 5400 mg/kg Species Mouse		
Acute dermal toxicity	LD50: > 2000 mg/kg Species Rat		
Acute inhalation toxicity	Acute inhalation toxicity (dust/mist) LC50: 75 mg/L Species Hamster		

Skin corrosion/irritation

Animal data

Result / Evaluation	Method	Source, Remark
Irritant to skin and mucous membranes.		

Serious eye damage/irritation

Animal data

Result / Evaluation	Method	Source, Remark
Irritant by contact with eyes.		

Sensitisation to the respiratory tract

not determined

Skin sensitisation

Animal data

Result / Evaluation	Dose / Concentration	Method	Source, Remark
not sensitising.			

Germ cell mutagenicity

not determined

Carcinogenicity

not determined

Reproductive toxicity

not determined

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STOT-single exposure

not determined

STOT-repeated exposure

not determined

Aspiration hazard

not determined

11.2 Information on other hazards

Symptoms related to the physical, chemical and toxicological characteristics

	Effective dose	Method,Evaluation	Source, Remark
Endocrine disrupting properties		No data available	

Other information

The product was classified on the basis of the calculation procedure of the Regulation (EU) Nr. 1272/2008 (CLP).
 The product has not been tested. The information is derived from the properties of the individual components.

SECTION 12: Ecological information

12.1 Toxicity

Aquatic toxicity

	Effective dose	Method,Evaluation	Source, Remark
Acute (short-term) fish toxicity	LC50: 440 mg/L Species <i>Leuciscus idus</i> (golden orfe) Test duration 48 h		
Chronic (long-term) fish toxicity	not determined		
Acute (short-term) toxicity to crustacea	LC50 1535 mg/L Species <i>Daphnia magna</i> (Big water flea) Test duration 24 h		
Chronic (long-term) toxicity to aquatic invertebrate	not determined		
Acute (short-term) toxicity to algae and cyanobacteria	NOEC 425 mg/L Species <i>Scenedesmus quadricauda</i> Test duration 8 d		
Chronic (long-term) toxicity to aquatic algae and cyanobacteria	not determined		
Toxicity to other aquatic plants/organisms	not determined		
Toxicity to microorganisms	> 10000 mg/L Species <i>Pseudomonas putida</i> Test duration 16 h		

12.2 Persistence and degradability

	Value	Method	Source, Remark
Biodegradation	Degradation rate 97 % Test duration 28 d		

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12.3 Bioaccumulative potential

Assessment/classification

No indication of bioaccumulation potential.

12.4 Mobility in soil

Assessment/classification

No data available

12.5 Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

12.6 Endocrine disrupting properties

	Effective dose	Method, Evaluation	Source, Remark
Endocrine disrupting properties		No data available	

12.7 Other adverse effects

Additional ecotoxicological information

Additional information

Do not discharge into the drains/surface waters/groundwater.
 Do not allow uncontrolled discharge of product into the environment.
 The information about ecology refers to the active component.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Waste codes/waste designations according to EWC/AVV

Waste code product	Waste name
160507 *	discarded inorganic chemicals consisting of or containing hazardous substances

Appropriate disposal / Product

In accordance with regulations for special waste, must be taken to a special waste disposal.

Appropriate disposal / Package

Non-contaminated packages may be recycled.
 Handle contaminated packages in the same way as the substance itself.

Remark

Collect the waste separately.
 Partially emptied packaging must be taken to point of sale or to a special waste disposal. Dispose of empty containers as urban waste.

SECTION 14: Transport information

	Land transport (ADR/RID)	Sea transport (IMDG)	Air transport (ICAO-TI / IATA-DGR)
14.1 UN number or ID number	-	-	-
14.2 UN proper shipping name	-	-	-
14.3 Transport hazard class(es)	-	-	-
14.4 Packing group	-	-	-

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	Land transport (ADR/RID)	Sea transport (IMDG)	Air transport (ICAO-TI / IATA-DGR)
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14.5 Environmental hazards - - -

14.6 Special precautions for user

No data available

14.7 Maritime transport in bulk according to IMO instruments

No data available

All transport carriers

No dangerous goods as defined by the transport regulations - ADR/RID, IMDG, ICAO/IATA-DGR.

Land transport (ADR/RID)

Remark

No dangerous goods as defined by these transport regulations.

Sea transport (IMDG)

Remark

No hazardous material as defined by the prescriptions.

Air transport (ICAO-TI / IATA-DGR)

Remark

No hazardous material as defined by the prescriptions.

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

Other regulations (EU)

Directive 2010/75/EU on industrial emissions [Industrial Emissions Directive] VOC

VOC content, ready-to-use condition 0 g/L

VOC content, delivery state 0 %

VOC-value 0 g/L

15.2 Chemical Safety Assessment

National regulations

Chemical safety assessments for substances in this mixture were not carried out.

SECTION 16: Other information

Indication of changes

* Data changed compared with the previous version

Additional information

National and local regulations concerning chemicals shall be observed.

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

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Relevant H- and EUH-phrases (Number and full text)

H319 Causes serious eye irritation.

H335 May cause respiratory irritation.