

Alkaline Membrane Cleaner

Print date 24.04.2023
Revision date 21.03.2023
Version 1.1 (en)
replaces version of 14.11.2018 (1.0)

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

* **1.1 Product identifier**

Trade name/designation Alkaline Membrane Cleaner

Hazard components

disodium carbonate, compound with hydrogen peroxide (2:3), tetrasodium ethylene diamine tetraacetate, N,N-dimethyldecylamine N-oxide

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)

SU22 Professional uses: Public domain (administration, education, entertainment, services, craftsmen)

Product Categories [PC]

PC35 Washing and cleaning products

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 Kempththal
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 Dam. 1, H318

STOT RE 2, H373

Hazard statements for health hazards

H318 Causes serious eye damage.

H373 May cause damage to organs through prolonged or repeated exposure.

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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

disodium carbonate, compound with hydrogen peroxide (2:3), tetrasodium ethylene diamine tetraacetate, N,N-dimethyldecylamine N-oxide

Hazard pictograms



GHS05



GHS08

Signal word

Danger

Hazard statements

H318 Causes serious eye damage.
 H373 May cause damage to organs through prolonged or repeated exposure.

* **Precautionary statements**

P102 Keep out of reach of children.
 P260 Do not breathe dust/fume/gas/mist/vapours/spray.
 P280 Wear protective gloves/protective clothing and eye/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.
 P310 Immediately call a POISON CENTER/doctor.

2.3 Other hazards

No data available

* **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
15630-89-4	239-707-6	disodium carbonate, compound with hydrogen peroxide (2:3)	25 < 50 weight-%	Ox. Sol. 2; H272 Acute Tox. 4; H302 Eye Dam. 1; H318	ATE(oral): 1034 mg/kg
64-02-8	200-573-9	tetrasodium ethylene diamine tetraacetate	25 < 50 weight-%	Acute Tox. 4; H302 Acute Tox. 4; H332 Eye Dam. 1; H318 STOT RE 2; H373	ATE(oral): 1780 mg/kg ATE(inhalation dust/mist): 1.5 mg/L
497-19-8	207-838-8	sodium carbonate	15 - 25 weight-%	Eye Irrit. 2; H319	

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH)

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CAS No.	EC No.	Substance name	Concentration	Classification according to Regulation (EC) No 1272/2008 [CLP]	SCL/ M/ ATE
2605-79-0	220-020-5	N,N-dimethyldecylamine N-oxide	< 1 weight-%	Acute Tox. 4; H302 Eye Dam. 1; H318 Aquatic Acute 1; H400 Aquatic Chronic 2; H411	ATE(oral): > 300 mg/kg

SECTION 4: First aid measures

4.1 Description of first aid measures

General information

Remove contaminated, saturated clothing immediately.
In the event of persistent symptoms receive medical treatment.
Remove casualty to fresh air and keep warm and at rest.
First aider: Pay attention to self-protection!

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.
Remove contaminated, saturated clothing immediately.
In case of skin irritation, consult a physician.

After eye contact

Immediately flush eyes with large amounts of water for at least 15 minutes. Get immediate medical attention.

Following ingestion

Do NOT induce vomiting.
If swallowed seek medical advice immediately and show the doctor the material safety data sheet.
Rinse mouth thoroughly with water.
Let water be drunken in little sips (dilution effect).

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
Water mist

Unsuitable extinguishing media

Full water jet

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5.2 Special hazards arising from the substance or mixture

Hazardous combustion products

In case of fire formation of dangerous gases possible.
In the event of fire the following can be released:
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.

Additional information

The product itself does not burn.
Co-ordinate fire-fighting measures to the fire surroundings.
Use water spray jet to protect personnel and to cool endangered containers.

*** 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

Do not allow to enter into surface water or drains.

*** 6.3 Methods and material for containment and cleaning up**

*** For containment**

Take up mechanically and send for disposal.
Keep at a distance of water, take up dry, wear breathing apparatus and personal protective clothing.
Ensure adequate ventilation.
Send in suitable containers for recovery or disposal.

6.4 Reference to other sections

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.
Use personal protective clothing.
Niemals ungebrauchtes Material in den Originalbehälter zurückgeben.
At work do not eat, drink and smoke.
Remove contaminated soaked clothing immediately.
Avoid the formation and deposition of dust.
The product is not:
Combustible
Take the usual precautions when handling chemicals.

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Advices on general occupational hygiene

When using do not eat, drink, smoke, sniff.
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**

Store in a cool place.
Keep/Store only in original container.
Ensure adequate ventilation of the storage area.

Materials to avoid

Do not store together with:
Acid
alkali
Combustible substance
Oxidising agent
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.
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

Permeationslevel 6
Penetrationslevel acc. to EN374:3
Glove material specification [make/type, thickness, permeation time/life, wetting resistance]: nitrile rubber or butyle rubber; 0,5 mm; ca 480 Min.

Body protection:

Chemical-resistant, leakproof work safety shoes

Respiratory protection

Respiratory protection necessary at:
insufficient ventilation
Particle-filtering half mask, filter FFP2, EN 149

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

*** 9.1 Information on basic physical and chemical properties**

Physical state

Powder

Colour

whitish

*** Odour**

characteristic

Safety relevant basis data

	Value	Method	Source, Remark
Odour threshold:	not determined		
Melting point/freezing point	not determined		
Boiling point or initial boiling point and boiling range	not determined		
flammability	solid		Product is not flammable.
Lower and upper explosion limit	not determined		
Flash point	not determined		
Auto-ignition temperature	not determined		
Decomposition temperature	not determined		
pH	in aqueous solution 10.5- 11.5 Concentration 2 %		
Viscosity	not determined		
Solubility(ies)	Water solubility		miscible
Partition coefficient n-octanol/water (log value)	not determined		
Vapour pressure	not determined		
Density and/or relative density	not determined		
Relative vapour density	not determined		
particle characteristics	not determined		

9.2 Other information

No data available

*** SECTION 10: Stability and reactivity**

10.1 Reactivity

No data available

10.2 Chemical stability

Stable under normal conditions.

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10.3 Possibility of hazardous reactions

No hazardous reactions known.

10.4 Conditions to avoid

No decomposition when stored and handled as directed.

*** 10.5 Incompatible materials**

Oxidising agent, strong

10.6 Hazardous decomposition products

No hazardous decomposition products known.

*** 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	CAS No.15630-89-4 disodium carbonate, compound with hydrogen peroxide (2:3) LD50: 1034 mg/kg CAS No.64-02-8 tetrasodium ethylene diamine tetraacetate LD50: 1780 mg/kg CAS No.2605-79-0 N,N- dimethyldecylamine N- oxide LD50: > 300 mg/kg		
Acute dermal toxicity			No data available
Acute inhalation toxicity	CAS No.64-02-8 tetrasodium ethylene diamine tetraacetate Acute inhalation toxicity (dust/mist) LC50: 1.5 mg/L Exposure time 4 h		

Assessment/classification

Based on available data, the classification criteria are not met.

Skin corrosion/irritation

Animal data

Result / Evaluation	Method	Source, Remark
Non-irritant		

Assessment/classification

Based on available data, the classification criteria are not met.

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* **Serious eye damage/irritation**

Animal data

Result / Evaluation	Method	Source, Remark
strongly irritant.		risk of strong eye injuries

Sensitisation to the respiratory tract

Assessment/classification

Based on available data, the classification criteria are not met.

Skin sensitisation

Animal data

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

Assessment/classification

Based on available data, the classification criteria are not met.

Germ cell mutagenicity

Value	Method	Result / Evaluation	Remark
In vitro mutagenicity/genotoxicity		Based on available data, the classification criteria are not met.	

Carcinogenicity

Animal data

Value	Method	Result / Evaluation	Remark
Carcinogenicity		Based on available data, the classification criteria are not met.	

Reproductive toxicity

Animal data

Value	Method	Result / Evaluation	Remark
Reproductive toxicity		Based on available data, the classification criteria are not met.	

STOT-single exposure

STOT SE 1 and 2

Assessment/classification

Based on available data, the classification criteria are not met.

STOT-repeated exposure

Assessment/classification

Causes damage to organs through prolonged or repeated exposure.

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Aspiration hazard

Remark

Based on available data, the classification criteria are not met.

11.2 Information on other hazards

* **Other information**

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

* **SECTION 12: Ecological information**

12.1 Toxicity

Aquatic toxicity

	Effective dose	Method, Evaluation	Source, Remark
Acute (short-term) fish toxicity			No data available
Chronic (long-term) fish toxicity	not determined		
Acute (short-term) toxicity to crustacea			No data available
Chronic (long-term) toxicity to aquatic invertebrate	not determined		
Acute (short-term) toxicity to algae and cyanobacteria			No data available
Chronic (long-term) toxicity to aquatic algae and cyanobacteria	not determined		
Toxicity to other aquatic plants/organisms	not determined		
Toxicity to microorganisms	not determined		

12.2 Persistence and degradability

	Value	Method	Source, Remark
Biodegradation			The product is not readily biodegradable to OECD criteria.
Biodegradation	Degradation rate 97 % Test duration 28 d		CAS No.2605-79-0 N,N-dimethyldecylamine N-oxide DOC reduction

12.3 Bioaccumulative potential

	Value	Method	Source, Remark
Bioconcentration factor (BCF)	Bioconcentration factor (BCF) 1.8		CAS No.64-02-8 tetrasodium ethylene diamine tetraacetate

12.4 Mobility in soil

No data available

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12.5 Results of PBT and vPvB assessment

No data available

12.6 Endocrine disrupting properties

No data available

12.7 Other adverse effects

* **Additional ecotoxicological information**

* **Additional information**

The evaluation was carried out according to the calculation method.
 Do not discharge into the drains/surface waters/groundwater.
 Do not allow uncontrolled discharge of product into the environment.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Waste codes/waste designations according to EWC/AVV

Waste code product	Waste name
200129 *	detergents containing hazardous substances

Appropriate disposal / Product

In accordance with regulations for special waste, must be taken to a special waste disposal.
 Can be disposed of in the sewage system in small quantities after dilution with water.
 Waste disposal according to directive 2008/98/EC, covering waste and dangerous waste.

Appropriate disposal / Package

Handle contaminated packages in the same way as the substance itself.
 Rinse empty containers well with plenty of water (observe occupational safety!). Cleaned empty containers can be disposed of with household waste or recycled.

Remark

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	-	-	-
14.5 Environmental hazards	No	No	No

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 good in sense of these transport regulations.

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* **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**

* **EU legislation**

* **Restrictions on use**

Observe employment restrictions for young people. (ArGV 5. SR 822.115)

Young people undergoing basic vocational training may only work with this product if the preconditions for the training plan have been met.

Young people who are not undergoing any basic vocational training are not permitted to work with this product.

Young people may carry out hazardous work with this product within the profession they have learned.

Male and female employees who are under 18 years old are classed as young people.

* **Restrictions of occupation**

Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers.

* **Other regulations (EU)**

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

VOC-value 0 g/L

15.2 Chemical Safety Assessment

* **National regulations**

For this substance a chemical safety assessment has not been carried out.

SECTION 16: Other information

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.

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

H272 May intensify fire; oxidiser.

H302 Harmful if swallowed.

H318 Causes serious eye damage.

H319 Causes serious eye irritation.

H332 Harmful if inhaled.

Safety Data Sheet according to Regulation (EC) No.
1907/2006 (REACH)

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H373 May cause damage to organs through prolonged or repeated exposure.
H400 Very toxic to aquatic life.
H411 Toxic to aquatic life with long lasting effects.

Indication of changes

* Data changed compared with the previous version