



SDS AquaClean

in accordance to Regulation (EC) no.: 1907/2006 (REACH) and 1272/2008 (CLP)

Date of issue/last revision: 06.2024

next revision: 06.2027

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

1.1. Product identifier:

Name: AquaClean
Cat. No.: WAK-AQ-250-50L

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

Additive to protect waterbaths and waterreservoirs in cell culture incubators from microbial contamination.

1.3. Details of the supplier of the safety data sheet:

WAK-Chemie Medical GmbH
Siemensstr. 9
61449 Steinbach/Ts
Tel: +49 6171 2843 0
Fax: +49 6171 695 646
E-Mail: info@wak-chemie.com

1.4. Emergency phone: +49 6171 2843 0
(on weekdays during office hours, 9 am – 5 pm CET)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture:

2.1.1 Classification of the substance or mixture according to EC No 1272/2008:

Aquatic Chronic 3; H412

2.2. Label elements according to EC No 1272/2008

Not a hazardous substance or mixture.

Hazard pictograms (CLP): Not required
Signal Word: Not required
Hazard Statements: Aquatic Chronic 3; H412

2.3 Other Hazards

AquaClean may be weakly irritant to eyes and mucosa in random cases. Avoid contact with eyes and mucosa. The concentrate of AquaClean is classified as 'harmful to aquatic organisms'. The diluted working solution (1:200) is appropriately diluted in order to be disposed via canalisation.

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.



Section 3: Composition/information on ingredients

3.1. Substance:

This product is a mixture.

3.2. Mixture:

Unique blend of quarternary ammonium compounds and auxilliary components.

Name	CAS No./ EC No.	concentrati on value	Classification according to Regulation (EC) No. 1272/2008 (CLP)	
Didecyldimethyl- ammoniumchlorid	7173-51-5/ 230-525-2	< 0,1 % w/w	Acute Tox. 4 Skin Corr. 1B	H302 H314
C ₁₂ -C ₁₆ -alkyl- dimethylammonium- chlorid	68424-85-1/ 270-325-2	< 0,1 % w/w	Skin Corr. 1B Acute Tox. 4 Aquatic Acute 1 Aquatic Chronic 1	H314 H312, 302 H400 H410
NaOH	1310-73-2/ 215-185-5	< 0,2 % w/w	Skin Corr. 1A,	H314
EDTA	150-38-9/ 205-758-8	< 5 % w/w	Eye Irrit. 2	H319
NTA	5064-31-3/ 225-768-6	< 1 % w/w	Acute Tox. 4	H302 H319
Ethylene glycol	107-21-1/ 203-473-3	< 1 % w/w	Acute Tox. 4	H302
Methylene blue	61-73-4/ 200-515-2	< 1 % w/w	Acute Tox. 4	H319
Amido black	1064-48-8/ 213-903-1	< 1 % w/w	Eye Irrit. 2	H319

* A registration number is not available for this substance as the substance or its use are exempted from registration according to Article 2. and 6. REACH Regulation (EC) No 1907/2006, the annual tonnage does not require a registration or the registration is envisaged for a later registration deadline.

The phrases, symbols, categories, codings, hazard statements and precautionary statements of paragraph 3 respectively 16 only apply to the undiluted active ingredients. They do not apply to the solution at hand, AquaClean.

Section 4: First aid measures

4.1. Description of first aid measures:

In case of ingestion wash mouth with water, drink plenty of water. Rinse eyes thoroughly with water after eye contact.

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:

If medical condition worsens, consult a physician. Treat allergic reactions symptomatically.

Section 5: Firefighting measures

5.1. Extinguishing media:

Non-inflammable, all extinguishing agents can be applied

5.2. Special hazards arising from the substance or mixture:

Nature of combustion products not known.



5.3. Advice for firefighters

Wear self contained breathing apparatus for fire fighting if necessary.

Section 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures:

Avoid contact with eyes and skin.

6.2. Environmental precautions:

Let not get in touch with surface waters. Dilute 1:200 and dispose via canalisation in accordance with local regulations.

6.3. Methods and materials for containment and cleaning up:

Take up with absorbant material, rinse with water and dispose via canalisation.

6.4. Reference to other sections:

For disposal see section 13.

Section 7: Handling and storage

7.1. Precautions for safe handling:

Avoid contact with eyes and mucosa. Wear protective clothing (safety glasses with side protection, chloropren gloves). Do not breathe spray.

7.2. Conditions for safe storage, including any incompatibilities:

Store light-protected at room temperature.

7.3. Specific end use(s):

General Application:

AquaClean is indicated for application in waterbaths and waterreservoirs inside cell culture incubators. It protects the water within these containers from microbial contamination. The protection prevails for up to four weeks. The blue colour-indicator signals a beginning contamination by decolourization of the water.

Application in waterreservoirs inside cell culture incubators.

AquaClean is suited to be applied in the waterreservoirs inside cell culture incubators.

As the active ingredients of AquaClean are non-volatile there is no danger for the cell cultures stored inside the incubator to be invaded by the disinfectant via air.

Section 8: Exposure controls/personal protection

8.1. Control parameters:

Active ingredients are non-volatile. Limitation and surveillance of exposure at workplace is not necessary.

8.2. Exposure controls:

Avoid contact with eyes and skin. Wear protective gloves/protective clothing/eye protection/face protection. Avoid breathing fume/vapours/spray.



Section 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties:

Appearance:	blue liquid
Odour:	odourless
Boiling point:	100° C
pH-value:	7,1
Specific weight:	0,99 +/- 0,01 g/cm ³
Solubility:	without limit in water
Flaming point:	non flammable
Oxidizing properties:	none
Vapour pressure:	~ H ₂ O
Chemical stability:	chemically stable
Water solubility:	without limit in water
n-octanol-water-partition-coefficient:	~ H ₂ O
Viscosity:	~ H ₂ O
Steam density:	~ H ₂ O
Evaporation rate:	~ H ₂ O

9.2. Other information:

Not data available.

Section 10: Stability and reactivity

10.1. Reactivity:

No decomposition if stored and applied as intended.

10.2. Chemical stability:

The product is chemically stable.

10.3. Possibility of hazardous reactions:

Under normal conditions of storage and use, hazardous reactions will not occur.

10.4. Conditions to avoid:

Avoid temperatures above 35°C.

10.5. Incompatible materials:

Not data available.

10.6. Hazardous decomposition products:

Under normal conditions of storage and use, hazardous decomposition products should not be produced.



Section 11: Toxicological Information

11.1 Information on toxicological effects

If used as intended no health-hazardous events are to be expected.

LD₅₀ rat: > 5307 mg / kg body weight for the AquaClean concentrate

LD₅₀ rat: > 1 061 400 mg / kg body weight for the AquaClean working solution (diluted 1:200)

Acute toxicity	No data available
Skin corrosion/irritation	No data available
Serious eye damage/irritation	No data available
Respiratory or skin sensitisation	No data available
Germ cell mutagenicity	No data available
Carcinogenicity	No data available
Reproductive toxicity	No data available
Specific target organ toxicity (single exposure)	No data available
Specific target organ toxicity (repeated exposure)	No data available
Aspiration hazard	No data available

Section 12: Ecological information

12.1. Toxicity:

Component: Didecyl dimethyl ammonium chloride

Ecotoxicological Data:

LC₅₀ 96 h fish: 0,48 mg/l
LC₅₀ 48 h daphnia: 0,03 mg/l
IC₅₀ 72 h alga: 0,01- 0,1 mg/l

Component: C₁₂-C₁₆-alkyl-dimethylammoniumchlorid

Ecotoxicological Data:

LC₅₀ 96 h fish: 0,85 mg/l
LC₅₀ 48 h daphnia magna: 0,015 mg/l
IC₅₀ 72 h alga: 0,03 mg/l

Component: NaOH

Ecotoxicological Data:

LC₅₀ 96 h fish: 50 - 100 mg/l
LC₅₀ 48 h daphnia magna: 150 mg/l

Component: EDTA

LC₅₀ 96 h fish: 10 - 100 mg/l
LC₅₀ 48 h daphnia magna: 100-500 mg/l
IC₅₀ 72 h alga: 0,3 mg/l

Component: Ethyleneglycol

LC₅₀ 96 h fish: 10 000 – 50 000 mg/l
LC₅₀ 48 h daphnia magna: 10 000-100 000 mg/l
IC₅₀ 72 h alga: 1000 – 10 000 mg/l

Component: Methylene blue

LC₅₀ 96 h fish: 20,5 mg/l
LC₅₀ 48 h daphnia magna: 2260 mg/l
IC₅₀ 72 h alga: 0,5 mg/l

Component: C I Acid black: No information available

Component: NTA: No information available



12.2. Persistence and degradability:

This product contains only readily biodegradable substances. The surfactants contained in this preparation comply with the biodegradability criteria as laid down in Regulation (EC) No. 648/2004 on detergents.

12.3. Bioaccumulative potential:

Not data available.

12.4. Mobility in soil:

Not data available.

12.5. Results of PBT and vPvB assessment

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

12.6. Other adverse effects

Not data available.

Section 13: Disposal considerations

13.1 Waste treatment methods:

13.1.1. Product/packaging disposal:

Does not contain any substances that are not degradable in clarification plants. All compounds are sufficiently diluted in canalisation. The diluted working solution can be disposed via canalisation. In case of disposal of the concentrate, please dilute 1:200 prior to disposal via canalisation.

13.1.2 Waste treatment-relevant information:

Not available

13.1.3 Sewage disposal-relevant information:

Not available

13.1.4 Other disposal recommendations:

Not available

Section 14: Transport information

ADR/RID/AND/IMG/IATA:

14.1. UN class:	Not a hazardous substance or mixture.
14.2. Proper shipping name:	Not a hazardous substance or mixture.
14.3. Transport Hazard Class :	Not a hazardous substance or mixture.
14.4. Packing group:	Not a hazardous substance or mixture.
14.5. Environmental Hazard no.:	Not a hazardous substance or mixture.
14.6. Special precautions for enduser:	see sections 6. and 8.
14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code:	not applicable



Section 15: Regulatory information

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

Labelling according EC No 1272/2008:
Aquatic Chronic 3; H412

15.2. Chemical safety assessment:

A chemical safety assessment is not required

Section 16: Other information

16.1 Indication of changes

See sections: 1, 3 and 16.

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16.2 Legend:

ADR:	European Agreement concerning the International Carriage of Dangerous Goods by Road
CAS:	Chemical Abstract Service Number
IATA DGR:	International Air Transport Association Dangerous Goods Regulation
IBC-Code:	The International Building Code (IBC) is a model building code developed by the International Code Council (ICC).
LC:	lethal concentration
LD:	lethal dose
log Kow:	The ratio of the concentration of a solute between water and octanol
MARPOL:	International Convention for the Prevention of Pollution from Ships
PBT:	Persistent, bioaccumulative and toxic
RID:	Convention concerning International Carriage by Rail
UN:	United Nations
vPvB:	very <i>persistent</i> and very bioaccumulative

16.3. References and data sources:

Regulation:

REACH- Regulation (EC) Nr. 1907/2006
CLP-Regulation (EC) Nr. 1272/2008
Regulation (EC) Nr. 2015/830

Internet:

www.reach-clp-biozid-helpdesk.de
<https://echa.europa.eu>
<http://www.reach-info.de>

16.4 Methods according to Article 9 of the Regulation (EC) No 1272/2008 of the evaluation of data for classification purposes:

Classification in accordance with Regulation (EC) No 1272/2008, Annex VII (Conversion table)



16.5. Hazard statements:

Acute Tox.	Acute toxicity
Skin Corr.	Skin corrosion
Aquatic Chronic	Chronic aquatic toxicity
Aquatic Acute	Acute aquatic toxicity
Eye Irrit.	Eye irritation
H302	May be harmful if swallowed
H312	Harmful in contact with skin
H314	Causes severe skin burns and eye damage
H319	Causes serious eye irritation
H400	Very toxic to aquatic life
H410	Very toxic to aquatic life with long-lasting effects
H412	Harmful to aquatic life with long-lasting effects

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16.6 Training advice:

For activities with this mixture= no training required.

Legal Disclaimer:

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