



## MSDS AquaClean

According to EC-Directive 1907/2006/EC

Date of issue/last revision: 7.5.2008

### 1. Identification of the substance/preparation and the company/undertaking

Product-number: WAK-AQ-250-50L  
Trade name: AquaClean  
Application: Additive to protect waterbaths and waterreservoirs in cell culture incubators from microbial contamination

Company Name: WAK-Chemie Medical GmbH  
Siemensstr. 9  
61449 Steinbach/Ts  
Tel: +49 6171 28430  
Fax: +49 6171 695 646  
E-Mail: [info@wak-chemie.com](mailto:info@wak-chemie.com)

### 2. Hazards identification

**Special hazards: R52 harmful to aquatic organisms** (acc. to: Annex I, Dir. 1999/45/EC)

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.

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<b>Datum:</b> Mai 2008	<b>Datum:</b> Mai 2008	<b>Datum:</b> Mai 2008	<b>Datum:</b> Mai 2008
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### 3. Composition/information on ingredients

Ingredients	CAS-#	EU-#	Concentration	Symbols	R-Phrases
Didecyldimethyl-ammoniumchlorid	7173-51-5	230-525	< 1 % w/w	C	R22 – 34
C <sub>12</sub> -C <sub>16</sub> -dimethylammonium-chlorid	68424-85-1	270-325-2	< 1 % w/w	C, N	R 21/22 R 34 R 50
NaOH	1310-73-2	215-185-5	< 0,2 % w/w	C	R 35
EDTA	150-38-9	205-758-8	< 2 % w/w	Xi	R36
NTA	5064-31-3	225-768-6	< 1 % w/w	Xn	R 22- 36
Ethylenglykol	107-21-1	203-473-3	< 1 % w/w	Xn	R 22
Methylenblau	61-73-4	2005152	< 1 % w/w	Xn	R 22
Amidoschwarz	1064-48-8	213-903-1	< 1 % w/w	Xi	R 36

**(The R-phrases and symbols of paragraph 3 respectively 16 only apply to the undiluted active ingredients. They do not apply to the solution at hand, AquaClean.)**

### 4. First aid measures

In case of ingestion wash mouth with water, drink plenty of water.  
 Rinse eyes thoroughly with water after eye contact.  
 If medical condition worsens, consult a physician.  
 Treat allergic reactions symptomatically.

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## 5. Fire fighting measures

Non-inflammable, all extinguishing agents can be applied.

## 6. Accidental release measures

Personal safety measures: Avoid contact with eyes and skin.

Ecological safety measures: Let not get in touch with surface waters, disposal via canalisation.

Cleaning measures: Take up with absorbant material, rinse with water, dispose via canalisation.

## 7. Handling and storage

Avoid contact with eyes and mucosa. Wear protective clothing (Safety glasses, latex gloves). Store light-protected at room temperature.

## 8. Exposure controls/personal protection

Active ingredients are non-volatile.  
Limitation and surveillance of exposure at workplace is not necessary.  
Avoid contact with eyes and mucosa. Wear protective clothing (Safety glasses, latex gloves).

## 9. Physical and chemical properties

Boiling point: 100° C  
Appearance: blue liquid  
pH-value: 7,1  
Odour: odourless  
Specific weight: 0,99 +/- 0,01 g/cm<sup>3</sup>  
Solubility: without limit in water  
flammability: non flammable  
Chemical stability: chemically stable

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## 10. Stability and reactivity

Avoid temperatures above 35° C.

No decomposition if stored and applied as intended.

## 11. Toxicological Information

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

LD<sub>50</sub> rat: > 5307 mg / kg body weight for the AquaClean concentrate

LD<sub>50</sub> rat: > 1 061 400 mg / kg body weight for the AquaClean working solution (diluted 1:200)

## 12. Ecological information

### R-phrases:

R 52 – harmful to aquatic organisms

### Ecotoxicological information on the components:

#### Component:

#### Didecyl dimethyl ammonium chloride

#### Ecotoxicological Data:

LC<sub>50</sub> 96 h fish: 0,48 mg/l

LC<sub>50</sub> 48 h daphnia: 0,03 mg/l

IC<sub>50</sub> 72 h algae: 0,01- 0,1 mg/l

#### Component:

#### C<sub>12</sub>-C<sub>16</sub>-alkyl-dimethylammoniumchlorid

#### Ecotoxicological Data:

LC<sub>50</sub> 96 h fish: 0,85 mg/l

LC<sub>50</sub> 48 h daphnia magna: 0,015 mg/l

IC<sub>50</sub> 72 h algae: 0,03 mg/l

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**Material Safety Data Sheet**  
**AquaClean**  
**MS-WAK-AquaClean-01-r01-05/08**

**WAK - Chemie**  
**Medical GmbH**



**Component:**

**NaOH**

**Ecotoxicological Data:**

LC<sub>50</sub> 96 h fish: 50 - 100 mg/l

LC<sub>50</sub> 48 h daphnia magna: 150 mg/l

**Component:**

**EDTA**

LC<sub>50</sub> 96 h fish: 10 - 100 mg/l

LC<sub>50</sub> 48 h daphnia magna: 100-500 mg/l

IC<sub>50</sub> 72 h alga: 0,3 mg/l

**Component:**

**Ethyleneglycol**

LC<sub>50</sub> 96 h fish: 10 000 – 50 000 mg/l

LC<sub>50</sub> 48 h daphnia magna: 10 000-100 000 mg/l

IC<sub>50</sub> 72 h alga: 1000 – 10 000 mg/l

**Component:**

**Methylene blue**

LC<sub>50</sub> 96 h fish: 20,5 mg/l

LC<sub>50</sub> 48 h daphnia magna: 2260 mg/l

IC<sub>50</sub> 72 h alga: 0,5 mg/l

**Component:**

**NTA**

LC<sub>50</sub> 96 h fish: 40 mg/l

LC<sub>50</sub> 48 h daphnia magna: 312 mg/l

IC<sub>50</sub> 96 h alga: 130 mg/l

**Component:**

**C I Acid black**

No information available

The previous figures refer to the undiluted components, they do not apply for the solution AquaClean.

AquaClean is not considered 'dangerous for the environment' according to EC Directive 1999/45.

**Degradability:**

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

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### 13. Disposal considerations

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.

S61 – Avoid release to the environment – Refer to special instructions / Safety Data Sheets.

### 14. Transport information

No dangerous good by means of dangerous goods regulations (land, sea, air)

**This product is not regulated by ADR/RID, IMDG, ICAO/IATA.**

Custom Tariffs Number: 38 22 0000 - Composed laboratory reagents

### 15. Regulatory information

**R-phrases:**

**R 52 – harmful to aquatic organisms**

**S-phrases:**

**S 24/25 – Avoid contact with skin and eyes**

**S 37/39 – Wear suitable protective gloves and eye/face protection**

**S61 – Avoid release to the environment – Refer to special instructions / Safety Data Sheets.**

This MSDS has been composed according to EC-Directive 1907/2006/EC

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## 16. Other information

Explanation of R-phrases and Symbols mentioned under paragraph 3.:

C – Corrosive

Xn – Harmful

Xi – Irritant

N – Dangerous for the environment

R 21/22 - Harmful in contact with skin and if swallowed.

R 22 – Harmful if swallowed.

R 34 – Causes burns.

R 35 – Causes severe burns.

R 36 – Irritating to eyes.

R 50 – Very toxic for aquatic organisms.

R 53 – May cause long-term adverse effects in the aquatic environment.

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Composed by: Florian Pobitschka

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### Legal Disclaimer:

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