



**SDS AquaClean**  
**according to Regulation (EC) No.: 1907/2006 (REACH) and 1272/2008 (CLP)**  
Date of issue/last revision: 10/2018

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

- 1.1. Product-number:** WAK-AQ-250-50L  
**Trade name:** AquaClean
- 1.2. Application:** Additive to protect waterbaths and waterreservoirs in cell culture incubators from microbial contamination
- 1.3. Company Name:** WAK-Chemie Medical GmbH  
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**F1/2A Westall Road**  
**Clayton, VIC 3168**  
**Phone: 03 8540 5900 / Fax: +613 9543 7827**  
**Web: [www.scientifix.com.au](http://www.scientifix.com.au)**
- 1.4. Emergency phone:** 03 8540 5900  
(on weekdays during office hours, 9 am – 5 pm AEDT)

**2. Hazards identification**

**2.1. 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.



### 3. Composition/information on ingredients

Unique blend of quarternary ammonium compounds and auxilliary components.

| Ingredients | CAS no./<br>EU no.     | Conc.     | Classification EC No 1272/2008 |           |
|-------------|------------------------|-----------|--------------------------------|-----------|
|             |                        |           | Hazard                         | H- Phrase |
| EDTA        | 150-38-9/<br>205-758-8 | < 5 % w/w | Eye Irrit. 2                   | H319      |

**(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.)**

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.

### 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.

### 5. Fire fighting measures

#### 5.1. Extinguishing media

Non-flammable, 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.

### 6. Accidental release measures

#### 6.1. Personal precautions, protective equipment and emergency procedures:

Avoid contact with eyes and skin.

P261 Avoid breathing fume/vapours/spray. P264 Wash hands thoroughly after use.

P272 Contaminated work clothing should not be allowed out of the work place.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P362 Take off contaminated clothing and wash before reuse. P363 Wash contaminated clothing before reuse.

P301+P330+P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting.

P302+P352 IF ON SKIN: Wash with plenty of soap and water.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P332+P313 If skin irritation occurs: Get medical advice/attention.

P333+P313 If skin irritation or rash occurs: Get medical advice/attention.



**6.2. Environmental precautions:**

P273 Avoid release to the environment. 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.

**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:**

P402+P404 Store in a dry place. Store container closed. P410 Protect from sunlight. P411 Store at temperatures of not more than 35°C. 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.

**8. Exposure controls/personal protection**

**8.1. Control parameters**

Contains no substances with occupational exposure limit values. 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.

P261 Avoid breathing fume/vapours/spray. P264 Wash hands thoroughly after use.

P272 Contaminated work clothing should not be allowed out of the work place.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P362 Take off contaminated clothing and wash before reuse. P363 Wash contaminated clothing before reuse.

P301+P330+P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting.

P302+P352 IF ON SKIN: Wash with plenty of soap and water.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P332+P313 If skin irritation occurs: Get medical advice/attention.

P333+P313 If skin irritation or rash occurs: Get medical advice/attention.



## 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 <sup>3</sup> |
| Solubility:                            | without limit in water          |
| Flaming point:                         | non flammable                   |
| Oxidizing properties:                  | none                            |
| Vapour pressure:                       | ~ H <sub>2</sub> O              |
| Chemical stability:                    | chemically stable               |
| Water solubility:                      | without limit in water          |
| n-octanol-water-partition-coefficient: | ~ H <sub>2</sub> O              |
| Viscosity:                             | ~ H <sub>2</sub> O              |
| Steam density:                         | ~ H <sub>2</sub> O              |
| Evaporation rate:                      | ~ H <sub>2</sub> O              |

### 9.2. Other information:

Not data available.

## 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.



## 11. Toxicological Information

### 11.1 Information on toxicological effects

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)

|  |                   |
|--|-------------------|
| 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 |

## 12. Ecological information

### 12.1. Toxicity:

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 algea: 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 algea: 0,03 mg/l

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 algea: 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 algea: 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 algea: 0,5 mg/l

Component: C I Acid black: No information available

Component: NTA: No information available



**Degradability:**

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

**12.2. Persistence and degradability:**

Biologically degradable

**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.

**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.

P501 Dispose of contents after dilution 1:200 to canalisation in accordance with local regulations.

P501 Dispose of container after rinsing to waste in accordance with local regulations.

**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                        |

**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



**16. Other information**

**16.1. Explanation of phrases and hazard statements mentioned under paragraph 3.:**

|                 |  |
|-----------------|--|
| Eye Irrit.      | Eye irritation   |
| Aquatic Chronic | Chronic aquatic toxicity   |
| H319            | Causes serious eye irritation  |
| H412            | Harmful to aquatic life with long-lasting effects  |
| P261            | Avoid breathing dust/fumes/gas/mist/vapours/spray  |
| P264            | Wash hands thoroughly after handling   |
| P272            | Contaminated work clothing should not be allowed out of the workplace  |
| P273            | Avoid release to the environment   |
| P280            | Wear protective gloves/protective clothing/eye protection/face protection  |
| P301+P330+P331  | IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.   |
| P302+P352       | IF ON SKIN: Wash with plenty of water  |
| P305+P351+P338  | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing. |
| P332+P313       | If skin irritation occurs: Get medical advice/attention.   |
| P333+P313       | If skin irritation or a rash occurs: Get medical advice/attention  |
| P362            | Take off contaminated clothing.  |
| P402+P404       | Store in a dry place. Store in a closed container.   |

(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.)

**16.2. 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)

**16.3. Changes since the last version:**

Reedited according to EC Regulation No. 1272/2008 (CLP Regulation)

Composed by: Dr. Florian Pobitschka

Date of issue/last revision: September 2015

Internal number: L-02-002-02-0-03

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