



## **MSDS Acryl AquaClean**

Composed 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**

Productnumber: WAK-AQA-250-50L  
Trade name: Acryl AquaClean  
Application: Additive to protect waterbaths and waterreservoirs in cell culture incubators from microbial contamination

Company Name: WAK-Chemie Medical GmbH  
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Tel: +49 6171 28430  
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E-Mail: [info@wak-chemie.com](mailto:info@wak-chemie.com)

### **2. Hazards identification**

**Special hazards: R 52 Harmful to aquatic organisms**  
**R 53 May cause long-term adverse effects in aquatic environment**  
(acc. to: Annex I, Dir. 1999/45/EC)

Acryl AquaClean may be weakly irritant to eyes and mucosa in random cases.  
Avoid contact with eyes and mucosa.

The concentrate of Acryl AquaClean is classified as 'harmful to aquatic organisms'. The diluted working solution (1:200) is appropriately diluted in order to be disposed via canalisation.

<b>Erstellt:</b> Florian Pobitschka	<b>Gepflegt:</b> Dr. W. Pobitschka	<b>Freigegeben:</b> Florian Pobitschka	<b>Inkraftsetzung</b>
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### 3. Composition/information on ingredients

Unique blend of cationic tensides and non-hazardous auxilliary components (not listed).

Ingredients	CAS-#	EU-#	Concentration	Symbols	R-Phrases
5-Cl-2-Methyl-3- Isothiazolon-3-on Methylthiazolon	55965-84-9	247-500-7  220-239-6	< 0,1 % w/w	T, N	R-23/24/25- 34-43-50/53
Benzylalkohol	100-51-6	202-859-9	< 1% w/w	Xn	R 20-22
Methylene blue	61-73-4	200-51-52	< 1 % w/w	Xn	R 22
C.I. Acid Black	1064-48-8	213-903-1	< 2 % w/w	Xi	R 36
Nonylphenolpoly- glykoether	9016-45-9	999-999-9	< 0,1 % w/w	Xn	R 22-41-53
Mg(NO <sub>3</sub> ) <sub>2</sub>	10377-60-3	233-826-7	< 3 % w/w	Xi, O	R 28-36-38

**(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, Acryl 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.

### 5. Fire fighting measures

Non-inflammable, all extinguishing agents can be applied.

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## 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:	6,8
Odour:	odourless
Specific weight:	1,01 g/cm <sup>3</sup>
Solubility:	without limit in water
Flammability:	non flammable
Chemical stability:	chemically stable

## 10. Stability and reactivity

Avoid temperatures above 35° C.  
In case of decomposition through heat very little amounts of HCl, NO<sub>x</sub>, SO<sub>2</sub> can be released.

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## 11. Toxicological Information

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

LD<sub>50</sub> rat: > 20 000 mg / kg body weight for the Acryl AquaClean concentrate

LD<sub>50</sub> rat: > 4 000 000 mg / kg body weight for the Acryl AquaClean working solution (diluted 1:200)

## 12. Ecological information

### R-phrases:

R 52 – harmful to aquatic organisms

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

### Ecotoxicological information on the components:

#### 5-Cl-2-methyl-3-isothiazolon-3on

##### Methylthiazolon

##### Ecotoxicological Data:

LC<sub>50</sub> 96 h fish: 0,16 mg/l

LC<sub>50</sub> 48 h daphnia magna: 0,19 mg/l

IC<sub>50</sub> 72 h algea: 0,018 mg/l

##### Benzyl alcohol

LC<sub>50</sub> 96 h fish: 646 mg/l

LC<sub>50</sub> 48 h daphnia magna: 400 mg/l

IC<sub>50</sub> 72 h algea: 640 mg/l

##### 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

##### Magnesium nitrate

EC<sub>50</sub> 48 h daphnia magna: 32 mg/l

EC<sub>50</sub> 72 h algea: 14 mg/l

##### Nonylphenol

LC<sub>50</sub> 96 h fish: 5–10 mg/l

LC<sub>50</sub> 48 h daphnia magna: 10-20 mg/l

IC<sub>50</sub> 72 h algea: 100-1000 mg/l

##### C I Acid black

No information available

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

**WAK - Chemie  
Medical GmbH**



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

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

### **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.

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

Custom Tariffs Number: 38 22 0000

### **15. Regulatory information**

**R-phrases:**

**R 52 – harmful to aquatic organisms**

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

**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.:

T – Toxic

Xn – Harmful

Xi – Irritant

O - Oxidizing

N – Dangerous for the environment

R 20-22 – Harmful by inhalation and if swallowed.

R 23/24/25 - Toxic by inhalation, in contact with skin and if swallowed.

R 28 – Very toxic if swallowed.

R 34 – Causes burns.

R 36 – Irritating to eyes.

R 38 – Irritating to skin.

R 41 – Risk of serious damage to eyes.

R 43 – May cause sensitization by skin contact.

R 50 – Very toxic for aquatic organisms.

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

**(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, Acryl AquaClean.)**

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Internal number: MS-WAK-Acryl AquaClean-eng-01-r01-05/08

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