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

### 1.1. Product identifier

Name of product Aqua Clean AC1000

Art-Nr: 1.0101.00001.00000 UFI: / BAuA Nr.: N-58428

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

Recommended intended purpose(s)

water treatment

Effect of the substance / the mixture

The product is used as a biocide.

1.3. Details of the supplier of the safety data sheet

Manufacturer/distributor Yachticon A. Nagel GmbH

Bürgermeister-Bombeck-Str. 1, D-22851 Norderstedt Phone +49 40 511 37 80, Fax +49 40 51 74 37

E-Mail yachticon@yachticon.de

Internet www.yachticon.de

Advice

Phone +49 40 511 37 80 Fax +49 40 51 74 37 E-mail (competent person): yachticon@yachticon.de

1.4. Emergency telephone number

**Emergency advice** 

Phone +49 40 511 37 80

This number is only available at office times.

Information in German and English.

### **SECTION 2: Hazards identification**

### 2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 [CLP/GHS]

Hazard classes and Hazard categories

Hazard Statements Classification procedure

Aquatic Chronic 1

H410

Hazard statements for environmental hazards

H410 Very toxic to aquatic life with long lasting effects.

**Additional hints** 

This mixture is classified as hazardous according to Regulation (EC) No 1272/2008 [GHS].

2.2. Label elements

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# Labelling according to Regulation (EC) No 1272/2008 [CLP/GHS]



GHS09

# Signal word

Warning

### Hazard statements for environmental hazards

H410 Very toxic to aquatic life with long lasting effects.

### **Precautionary Statements**

General

P102 Keep out of reach of children.

P103 Read carefully and follow all instructions.

Prevention

P273 Avoid release to the environment.

Response

P391 Collect spillage.

**Disposal** 

P501 Dispose of contents/container to an approved waste handling.

### **Additional information**

### Remark

Use biocides safely. Always read the label and product information before use.

### 2.3. Other hazards

### Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

# **SECTION 3: Composition/information on ingredients**

#### 3.1. Substances

not applicable

#### 3.2. Mixtures

# Hazardous ingredients

CAS No	EC No	Name	[% weight]	Classification according to Regulation (EC) No 1272/2008 [CLP/ GHS]
7440-22-4	231-131-3	silver ( Ag+)	< 0,01	Aquatic Acute 1, H400 M=1000 /
				Aquatic Chronic 1, H410 M=100

**REACH** 

 CAS No
 Name
 REACH registration number

 7440-22-4
 silver (Ag+)
 01-2119555669-21-XXXX

### **Additional advice**

Biocidal active substance: Silver

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#### **SECTION 4: First aid measures**

### 4.1. Description of first aid measures

# **General information**

Remove moisted clothing immediately.

In the event of persistent symptoms receive medical treatment.

### In case of inhalation

Ensure of fresh air.

#### In case of skin contact

In case of contact with skin wash off with water.

#### In case of eye contact

In case of contact with eyes rinse thoroughly with water.

Remove contact lenses.

### In case of ingestion

Do not induce vomiting.

Rinse out mouth thoroughly with water.

### 4.2. Most important symptoms and effects, both acute and delayed

No information available.

### 4.3. Indication of any immediate medical attention and special treatment needed

No information available.

# **SECTION 5: Firefighting measures**

### 5.1. Extinguishing media

# Suitable extinguishing media

Fire-extinguishing activities according to surrounding.

Alcohol-resistant foam

Dry fire-extinguishing substance

Carbon dioxide

Water spray jet

### 5.2. Special hazards arising from the substance or mixture

The product itself does not burn.

### 5.3. Advice for firefighters

# Special protective equipment for fire-fighters

Use breathing apparatus with independent air supply ( isolated ).

Wear full protective clothing.

#### **Additional information**

Fire residues and contaminated firefighting water must be disposed of in accordance with the local regulations.

# **SECTION 6: Accidental release measures**

# 6.1. Personal precautions, protective equipment and emergency procedures For non-emergency personnel

Ensure adequate ventilation.

Avoid skin and eye contact.

Use personal protective clothing.

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### 6.2. Environmental precautions

In the case of contamination of soil, waterways or drains, inform the competent authorities.

Do not discharge into the drains/surface waters/groundwater.

# 6.3. Methods and material for containment and cleaning up

Take up with absorbent material (e.g. general-purpose binder).

Flush away residues with water.

After taking up the material dispose according to regulation.

### 6.4. Reference to other sections

Safe handling: see section 7 Disposal: see section 13

Personal protection equipment: see section 8 Emergency telephone number: see section 1

# **SECTION 7: Handling and storage**

# 7.1. Precautions for safe handling

#### Advice on safe handling

Take the usual precautions when handling with chemicals.

Handle in accordance with good industrial hygiene and safety practice.

### **General protective measures**

Avoid contact with eyes and skin

### Hygiene measures

Clean skin thoroughly after working.

At work do not eat, drink and smoke.

Remove soiled or soaked clothing immediately.

# 7.2. Conditions for safe storage, including any incompatibilities

Further information on storage conditions

Keep container tightly closed and store at cool and aired place.

Storage group 12

### 7.3. Specific end use(s)

No information available.

# **SECTION 8: Exposure controls/personal protection**

### 8.1. Control parameters

Additional advice

-

# 8.2. Exposure controls

### Respiratory protection

Not necessary with adequate exhaust ventilation.

### **Hand protection**

Glove material specification [make/type, thickness, permeation time/life, wetting resistance]: Nitrile, 0,4 mm, 60 min, 480 min. e.g. "Camatril Profi" (KCL GmbH, Email: Vertrieb@kcl.de)

The selection of the suitable gloves does not only depend on different material, but also on further marks of quality and varies from manufacturer to manufacturer.

The exact breakthrough time of the glove material can be requested from the protective glove manufacturer and must be observed.

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# Eye protection

safety goggles

# Other protection measures

Light protective clothing.

# Appropriate engineering controls

Ensure good ventilation, where necessary use fume hood.

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

9.1. Information on basic physical and chemical properties

**Appearance** 

liquid

Colour

Odour odourless

colourless

**Odour threshold** 

not determined

# Important health, safety and environmental information

	Value	Temperature	at	Method	Remark
pH value	ca. 7				
boiling point	> 100 C				
melting point	< 0 °C				
Flash point					not applicable
Vapourisation rate	not determined				
Flammable (solid)	not determined				
Flammability (gas)	not determined				
Ignition temperature	not determined				
Self ignition temperature					The product is not self-igniting.
Lower explosion limit	not determined				
Upper explosion limit	not determined				
Vapour pressure	not determined				
Relative density	ca. 1 g/cm³	20 °C			
Vapour density	not determined				
Solubility in water					multimiscible
Solubility/other	not determined				

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Method Value Temperature at Remark not determined Partition coefficient noctanol/water (log P O/W) not determined **Decomposition** temperature not determined **Viscosity Oxidising properties** No information available. **Explosive properties** The product is not explosive. 9.2. Other information

# **SECTION 10: Stability and reactivity**

### 10.1. Reactivity

No information available.

No information available.

# 10.2. Chemical stability

Stable under normal conditions of use.

Stable under recommended storage conditions.

### 10.3. Possibility of hazardous reactions

No information available.

### 10.4. Conditions to avoid

No information available.

### 10.5. Incompatible materials

No information available.

## 10.6. Hazardous decomposition products

Concerning possible decomposition products see section 5.

### Thermal decomposition

Remark No decomposition if used as directed.

# **SECTION 11: Toxicological information**

### 11.1. Information on toxicological effects

# Acute toxicity/Irritation/Sensitization

	Value/Validation	Species	Method	Remark
LD50 acute oral	3000 mg/kg	rat		Information concerns to main
				component.

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	Value/Validation	Species	Method	Remark
LD50 acute dermal	> 1000 mg/kg	rabbit		Information refers to main component.
Skin irritation	non-irritant			
Eye irritation	low irritant			
Skin sensitization				No known sensitization.
Sensitization respiratory				No known sensitization.

## Specific target organ toxicity (single exposure)

No effect known.

system

# Specific target organ toxicity (repeated exposure)

No effect known.

### **Aspiration hazard**

No classification in terms of aspiration.

#### Additional information

The product should be handled with the care usual when dealing with chemicals.

Further hazardous properties can not be excluded.

# **SECTION 12: Ecological information**

### 12.1. Toxicity

### **Ecotoxicological effects**

_	Value	Species	Method	Validation
Fish	LC50 > 1000 g/m³ (96 h)	Pimephales promelas		Information refers to main
				component.

### 12.2. Persistence and degradability

No information available.

#### 12.3. Bioaccumulative potential

No information available.

### 12.4. Mobility in soil

No information available.

### 12.5. Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

### 12.6. Other adverse effects

# **General regulation**

Do not allow uncontrolled leakage of product into the environment.

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# **SECTION 13: Disposal considerations**

### 13.1. Waste treatment methods

# Recommendations for the product

There are no harmonised regulations on the disposal of chemicals in the member states of the EU. In Germany the Recycling and Waste Management Act (KrWG) stipulates recycling as a requirement. This means that a distinction must be made between "wastes for recycling" and "wastes for disposal". Particular aspects - in the main concerning delivery - are also governed by the Laender.

# Recommendations for packaging

Totally emptied packaging may be taken for recycling.

Totally emptied packaging may be treated as household waste.

Disposal according to official regulations.

### Recommended cleansing agent

water

#### **General information**

Allocation of the waste number has to be done according to the EWC directive industry- and process-specific.

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# **SECTION 14: Transport information**

	ADR/RID	IMDG	IATA-DGR
14.1. UN number	3082	3082	3082
14.2. UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (silver ( Ag+))	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N. O.S. (silver ( Ag+))	Environmentally hazardous substance, liquid, n.o.s. (silver ( Ag+))
14.3. Transport hazard class(es)	9	9	9
14.4. Packing group	III	III	III
14.5. Environmental hazards	Yes	Yes	Yes

### 14.6. Special precautions for user

No information available.

### 14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

No information available.

# Land and inland navigation transport ADR/RID

Hazard label(s) 9 Tunnel restriction code -Classification code M6

## Marine transport IMDG

MARINE POLLUTANT

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# **SECTION 15: Regulatory information**

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

**National regulations** 

Water hazard class 3 following AwSV (Germany)

highly hazardous to water

Decree for case of interference/remarks

Quantity limits according to Hazardous Incident Ordinance must be

observed.

#### 15.2. Chemical Safety Assessment

No information available.

### **SECTION 16: Other information**

### Training advice

CAS - Chemical Abstracts Service; CLP - classification, labeling and packaging; DNEL - derived exposure level without adverse effects; GHS - Globally Harmonized System for Classification and Labeling of Chemicals; LC50 - Median Lethal Concentration;

OECD - Organization for Economic Co-operation and Development; PBT - Persistent, Bioaccumulative and Toxic; PNEC - Estimated No Effect Concentration; STOT - Specific Target Organ Toxicity; SVHC - substance of very high concern;

# Recommended uses and restrictions

National and local regulations concerning chemicals shall be observed.

### **Further information**

The national special regulations have to be implemented by each user their own responsibility! The information contained herein is based on the state of our knowledge. It characterizes the product with regard to the appropriate safety precautions. It does not represent a guarantee of the properties of the product.

Please note: Our Material Safety Data Sheets have been prepared in accordance with EU directives, WITHOUT taking into account the specific national regulations for handling hazardous materials and chemicals.

Indication of changes: "!" = Data changed compared with the previous version. Previous version: 1.7

# Sources of key data used

Data sheets of the suppliers.

European Chemicals Agency (ECHA)

Full text of Hazard Statements in Section 3 (NOT classification of the mixture).

Federal Environment Agency (water hazard classes)

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.