

# SAFETY DATA SHEET

according to Regulation 1907/2006 amended by

2015/830/EU

Product name: **Aqualor H 5000**

Creation date: **14.3.2020** · Revision: **10.10.2022** · Version: **1.5**

## SECTION 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

### 1.1. Product identifier

Product name

**Aqualor H 5000**



chemius.net/2OB21

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

Relevant identified uses

Surface and barrier disinfectant.

Uses advised against

No information.

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

Manufacturer

SIGMA DOO CRVENKA

Address: IVANA MILUTINOVIĆA 77, 25220 Crvenka, Serbia

Phone: 025-731-805

Fax: 025-731-805

E-mail: office@hlorogen.com

### 1.4. Emergency telephone number

112

025-731-805 (7-15h)

## SECTION 2. HAZARDS IDENTIFICATION

### 2.1 Classification of the substance or mixture

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

According to the regulation, the product is not classified as hazardous.

### 2.2 Label elements

2.2.1. Labelling according to Regulation (EC) No 1272/2008 [CLP]

P102 Keep out of reach of children.

P501 Dispose of contents/container in accordance with national regulation.

2.2.2. Contains:

-

2.2.3. Special provisions

Special hazards are not known or expected.

### 2.3. Other hazards

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

### Product description

The product is intended for general and professional use. It is used undiluted.

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## 3.1. Substances

For mixtures see 3.2.

## 3.2. Mixtures

Name	CAS EC Index	%	Classification according to Regulation (EC) No 1272/2008 (CLP)	Specific Conc. Limits	REACH Registration No.
Active chlorine generated from sodium chloride by electrolysis	- - -	0,05-0,5	Skin Corr. 1B; H314 Aquatic Acute 1; H400		-

## SECTION 4. FIRST AID MEASURES

### 4.1. Description of first aid measures

#### General notes

When in doubt or if feeling unwell seek medical assistance.

#### Following inhalation

-

#### Following skin contact

-

#### Following eye contact

Immediately flush eyes with running water, keeping eyelids apart.

#### Following ingestion

Do not induce vomiting! Rinse mouth thoroughly with water.

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

#### Inhalation

-

#### Skin contact

-

#### Eye contact

-

#### Ingestion

-

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

No data.

## SECTION 5. FIREFIGHTING MEASURES

### 5.1. Extinguishing media

#### Suitable extinguishing media

Carbon dioxide. Dry chemical powder. Water spray. Alcohol resistant foam.

#### Unsuitable extinguishing media

-

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

### Hazardous combustion products

Chlorine. Oxygen.

## 5.3. Advice for firefighters

### Protective actions

In case of fire do not breathe fumes/gases.

### Special protective equipment for firefighters

Firefighters should wear appropriate protective clothing for firefighters (including helmets, protective boots and gloves) (EN 469) and self-contained breathing apparatus (SCBA) with a full face-piece (EN 137).

## SECTION 6. ACCIDENTAL RELEASE MEASURES

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

#### 6.1.1. For non-emergency personnel

##### **Protective equipment**

Use personal protective equipment (Section 8).

##### **Emergency procedures**

Ensure adequate ventilation.

#### 6.1.2. For emergency responders

-

### 6.2. Environmental precautions

Do not allow product to reach water/drains/sewage systems or permeable soil.

### 6.3. Methods and material for containment and cleaning up

#### 6.3.1. For containment

-

#### 6.3.2. For cleaning up

Absorb product (with inert material), collect it in special container and dispose it to a licensed hazardous-waste disposal contractor.

#### 6.3.3. Other information

-

### 6.4. Reference to other sections

See also Sections 8 and 13.

## SECTION 7. HANDLING AND STORAGE

### 7.1. Precautions for safe handling

#### 7.1.1. Protective measures

##### **Measures to prevent fire**

Ensure adequate ventilation.

##### **Measures to prevent aerosol and dust generation**

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##### **Measures to protect the environment**

-

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## 7.1.2. Advice on general occupational hygiene

Use good personal hygiene practices – wash hands at breaks and when done working with material. Do not eat, drink or smoke while working. Do not breathe vapours/mist.

## **7.2. Conditions for safe storage, including any incompatibilities**

### 7.2.1. Technical measures and storage conditions

Keep in cool and well ventilated area. Protect from open fire, heat and direct sunlight. Keep away from acids. Keep out of the reach of children. Keep away from food, drink and animal feeding stuffs. Avoid contact with metals such as aluminum, copper, iron and steel. Storage temperature: 10 - 30 ° C ..

### 7.2.2. Packaging materials

-

### 7.2.3. Requirements for storage rooms and vessels

-

### 7.2.4. Storage class

-

### 7.2.5. Further information on storage conditions

-

## **7.3. Specific end use(s)**

### **Recommendations**

See identified uses in Section 1.2.

### **Industrial sector specific solutions**

-

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## **SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

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### **8.1. Control parameters**

#### 8.1.1. Occupational exposure limit values

No information.

#### 8.1.2. Information on monitoring procedures

BS EN 14042:2003 Title Identifier: Workplace atmospheres. Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents. BS EN 482:2021 Workplace exposure. Procedures for the determination of the concentration of chemical agents. Basic performance requirements.

#### 8.1.3. DNEL/DMEL values

No information.

#### 8.1.4. PNEC values

No information.

### **8.2. Exposure controls**

#### 8.2.1. Appropriate engineering control

##### **Substance/mixture related measures to prevent exposure during identified uses**

Avoid contact with eyes.

##### **Technical measures to prevent exposure**

Provide good ventilation and local exhaust in areas with increased concentration.

#### 8.2.2. Personal protective equipment

##### **Eye and face protection**

No requirements under normal use conditions.

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## Hand protection

No requirements under normal use conditions.

## Skin protection

No requirements under normal use conditions.

## Respiratory protection

Not needed under normal use and adequate ventilation.

## Thermal hazards

-

### 8.2.3. Environmental exposure controls

#### Substance/mixture related measures to prevent exposure

Avoid discharge into drains and surface waters.

## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

### 9.1. Information on basic physical and chemical properties

-	<b>Physical state:</b>	liquid
-	<b>Colour:</b>	yellowish
-	<b>Odour:</b>	chlorine

### Important health, safety and environmental information

-	<b>pH</b>	8,7 – 9
-	<b>Melting point/freezing point</b>	< 0 °C
-	<b>Initial boiling point/boiling range</b>	> 100 °C
-	<b>Flash point</b>	Not flammable.
-	<b>Evaporation rate</b>	No information.
-	<b>Flammability (solid, gas)</b>	No information.
-	<b>Explosion limits (vol%)</b>	No information.
-	<b>Vapour pressure</b>	No information.
-	<b>Vapour density</b>	No information.
-	<b>Density</b>	<b>Density:</b> 1,022 g/cm <sup>3</sup>
-	<b>Solubility</b>	<b>Water:</b> Completely soluble
-	<b>Partition coefficient</b>	No information.
-	<b>Auto-ignition temperature</b>	Not selfigniting.
-	<b>Decomposition temperature</b>	No information.
-	<b>Viscosity</b>	No information.
-	<b>Explosive properties</b>	No information.
-	<b>Oxidising properties</b>	No information.

### 9.2. Other information

-	<b>Remarks:</b>	Freezing point: <0
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## SECTION 10. STABILITY AND REACTIVITY

### 10.1. Reactivity

Stable under recommended transport or storage conditions.

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## 10.2. Chemical stability

Product is stable under normal conditions of use, recommended handling and storage conditions.

## 10.3. Possibility of hazardous reactions

No data available.

## 10.4. Conditions to avoid

No special precautions required. Consider the directions for use and storage.

## 10.5. Incompatible materials

Acids.

## 10.6. Hazardous decomposition products

Under normal use conditions no hazardous decomposition products are expected. In case of fire/explosion vapours/gases that pose a health hazard are released.

## SECTION 11. TOXICOLOGICAL INFORMATION

### 11.1. Information on toxicological effects

#### (a) Acute toxicity

Name	Exposure route	Type	Species	Time	Value	Method	Remark
Active chlorine generated from sodium chloride by electrolysis (-)	oral	LD <sub>50</sub>	rat		8200 mg/kg		
Active chlorine generated from sodium chloride by electrolysis (-)	dermal	LD <sub>50</sub>	rabbit		10000 mg/kg		

**Additional information:** The product is not classified for acute toxicity.

#### (b) Skin corrosion/irritation

**Additional information:** Skin corrosion/irritation: Based on available data, the classification criteria are not met.

#### (c) Serious eye damage/irritation

**Additional information:** Serious eye damage/irritation: Based on available data, the classification criteria are not met.

#### (d) Respiratory or skin sensitisation

**Additional information:** The product is not classified as sensitising.

#### (e) (Germ cell) mutagenicity

No information.

#### (f) Carcinogenicity

No information.

#### (g) Reproductive toxicity

No information.

#### Summary of evaluation of the CMR properties

Mutagenicity: based on available data, the classification criteria are not met. Carcinogenicity: Based on available data, the classification criteria are not met.

Reproductive toxicity: Based on available data, the classification criteria are not met.

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## (h) STOT-single exposure

**Additional information:** STOT SE (single exposure): Not classified.

## (i) STOT-repeated exposure

**Additional information:** STOT RE (repeated exposure): Not classified.

## (j) Aspiration hazard

**Additional information:** Aspiration hazard: Not classified.

## SECTION 12. ECOLOGICAL INFORMATION

### 12.1. Toxicity

#### 12.1.1. Acute (short-term) toxicity

##### For components

Substance (CAS Nr.)	Type	Value	Exposure time	Species	Organism	Method	Remark
Active chlorine generated from sodium chloride by electrolysis (-)	LC <sub>50</sub>	0,033 – 0,097 mg/L	96 h	fish	Clupea harengus		
	LC <sub>50</sub>	0,045 – 0,098 mg/L	96 h	fish	Cymatogaster aggregata		
	LC <sub>50</sub>	0,041 – 0,193 mg/L	96 h	fish	Gasterosteus Sculeatus		
	LC <sub>50</sub>	0,023 – 0,052 mg/L	96 h	fish	Oncorhynchus Gorbuscha		
	EC <sub>50</sub>	2,1 mg/L	96 h	<i>Daphnia</i>	<i>Daphnia magna</i>		
	EC <sub>50</sub>	0,07 – 0,7 mg/L	24 h	<i>Daphnia</i>	<i>Daphnia magna</i>		
	ErC <sub>50</sub>	0,11 mg/L	24 h	algae	<i>Dunaliella tertiolecta</i>		

#### 12.1.2. Chronic (long-term) toxicity

No information.

### 12.2. Persistence and degradability

#### 12.2.1. Abiotic degradation, physical- and photo-chemical elimination

No information.

#### 12.2.2. Biodegradation

No information.

### 12.3. Bioaccumulative potential

#### 12.3.1. Partition coefficient

No information.

#### 12.3.2. Bioconcentration factor (BCF)

No information.

### 12.4. Mobility in soil

#### 12.4.1. Known or predicted distribution to environmental compartments

No information.

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## 12.4.2. Surface tension

No information.

## 12.4.3. Adsorption/Desorption

No information.

## 12.5. Results of PBT and vPvB assessment

The product does not contain any PBT or vPvB substances in percentages greater than 0.1%.

## 12.6. Other adverse effects

The product is not classified as hazardous for the environment. Prevent spreading in groundwater, watercourses, water supply or sewage system.

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## SECTION 13. DISPOSAL CONSIDERATIONS

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### 13.1. Waste treatment methods

#### 13.1.1. Product / Packaging disposal

##### **Waste chemical**

Dispose the product to an authorised collector/remover of waste/company performing waste recovery.

##### **Waste codes / waste designations according to LoW**

07 06 99 - wastes not otherwise specified

##### **Packaging**

Deliver completely emptied containers to approved waste disposal authorities.

#### 13.1.2. Waste treatment-relevant information

-

#### 13.1.3. Sewage disposal-relevant information

-

#### 13.1.4. Other disposal recommendations

-

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## SECTION 14. TRANSPORT INFORMATION

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### 14.1. UN number

Not applicable.

### 14.2. UN proper shipping name

ADR, RID, IMDG, ADN, IATA: Not dangerous according to transport regulations.

### 14.3. Transport hazard class(es)

Not applicable.

### 14.4. Packing group

Not applicable.

### 14.5. Environmental hazards

NO.

### 14.6. Special precautions for user

Not applicable.

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## 14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable.

## SECTION 15. REGULATORY INFORMATION

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

- Regulation (EC) No 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (including last amendment Commission Regulation (EU) 2015/830)

- Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures

#### 15.1.1. Information according 2004/42/EC about limitation of emissions of volatile organic compounds (VOC-guideline)

Not applicable.

### 15.2. Chemical Safety Assessment

No Chemical Safety Assessment has been carried out for this substance/mixture by the supplier.

## SECTION 16. OTHER INFORMATION

### Indication of changes

-

### Abbreviations and acronyms

ATE - Acute Toxicity Estimate  
ADR - Agreement concerning the International Carriage of Dangerous Goods by Road  
ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways  
CEN - European Committee for Standardisation  
C&L - Classification and Labelling  
CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008  
CAS# - Chemical Abstracts Service number  
CMR - Carcinogen, Mutagen, or Reproductive Toxicant  
CSA - Chemical Safety Assessment  
CSR - Chemical Safety Report  
DMEL - Derived Minimal Effect Level  
DNEL - Derived No Effect Level  
DPD - Dangerous Preparations Directive 1999/45/EC  
DSD - Dangerous Substances Directive 67/548/EEC  
DU - Downstream User  
EC - European Community  
ECHA - European Chemicals Agency  
EC-Number - EINECS and ELINCS Number (see also EINECS and ELINCS)  
EEA - European Economic Area (EU + Iceland, Liechtenstein and Norway)  
EEC - European Economic Community  
EINECS - European Inventory of Existing Commercial Substances  
ELINCS - European List of notified Chemical Substances  
EN - European Standard  
EQS - Environmental Quality Standard  
EU - European Union  
Euphrac - European Phrase Catalogue  
EWC - European Waste Catalogue (replaced by LoW – see below)  
GES - Generic Exposure Scenario  
GHS - Globally Harmonized System  
IATA - International Air Transport Association  
ICAO-TI - Technical Instructions for the Safe Transport of Dangerous Goods by Air  
IMDG - International Maritime Dangerous Goods  
IMSBC - International Maritime Solid Bulk Cargoes  
IT - Information Technology  
IUCLID - International Uniform Chemical Information Database

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IUPAC - International Union for Pure Applied Chemistry  
JRC - Joint Research Centre  
Kow - octanol-water partition coefficient  
LC<sub>50</sub> - Lethal Concentration to 50 % of a test population  
LD<sub>50</sub> - Lethal Dose to 50% of a test population (Median Lethal Dose)  
LE - Legal Entity  
LoW - List of Wastes (see <http://ec.europa.eu/environment/waste/framework/list.htm>)  
LR - Lead Registrant  
M/I - Manufacturer / Importer  
MS - Member States  
MSDS - Material Safety Data Sheet  
OC - Operational Conditions  
OECD - Organization for Economic Co-operation and Development  
OEL - Occupational Exposure Limit  
OJ - Official Journal  
OR - Only Representative  
OSHA - European Agency for Safety and Health at work  
PBT - Persistent, Bioaccumulative and Toxic substance  
PEC - Predicted Effect Concentration  
PNEC(s) - Predicted No Effect Concentration(s)  
PPE - Personal Protection Equipment  
(Q)SAR - Qualitative Structure Activity Relationship  
REACH - Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006  
RID - Regulations concerning the International Carriage of Dangerous Goods by Rail  
RIP - REACH Implementation Project  
RMM - Risk Management Measure  
SCBA - Self-Contained Breathing Apparatus  
SDS - Safety data sheet  
SIEF - Substance Information Exchange Forum  
SME - Small and Medium sized Enterprises  
STOT - Specific Target Organ Toxicity  
(STOT) RE - Repeated Exposure  
(STOT) SE - Single Exposure  
SVHC - Substances of Very High Concern  
UN - United Nations  
vPvB - Very Persistent and Very Bioaccumulative

## Key literature references and sources for data

<https://echa.europa.eu/>

## List of relevant H phrases

H314 Causes severe skin burns and eye damage.  
H400 Very toxic to aquatic life.



- Provided correct labelling of the product
- Compliance with the local legislation
- Provided correct classification of the product
- Provided adequate transport data

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The information of this SDS is based on the present state of our knowledge and meets the requirements of EU and national laws. The user's working conditions however, are beyond our knowledge and control. The product is not to be used for purposes other than those specified under Section 1 without a written permission. It remains the responsibility of the user to ensure that the necessary steps are taken to meet the laws and regulations. Handling of the product may only be done by people above 18 years of age, who are satisfactorily informed of how to do the work, the hazardous properties and necessary safety precautions. The information given in this SDS is to describe the product only in terms of health and safety requirements and should not, therefore, be construed as guaranteeing specific properties.