

**1. SECTION PRODUCT AND COMPANY IDENTIFICATION**

Product name	:	BIOQUELL®过氧化氢消毒液 BIOQUELL HPV-AQ
Other means of identification	:	Not applicable.
Recommended use	:	Surface Disinfectant
Restrictions on use	:	Reserved for industrial and professional use.
Product dilution information	:	Product is sold ready to use.
Company	:	Ecolab (China) Investment Co., Ltd. No. 18, Lane 168 Daduhe Road, Putuo District, Shanghai, 200062 China +86-021-61832500  Bioquell.consumables@ecolab.com
Emergency telephone number	:	+86 4001 2001 74. Use access code: 333809
Issuing date	:	2022.05.04

**2. SECTION HAZARDS IDENTIFICATION**
**Emergency Overview**

clear colourless liquid. May intensify fire; oxidiser. Harmful if swallowed. Causes skin irritation. Causes serious eye damage. May be harmful if inhaled. May cause respiratory irritation. Toxic to aquatic life. Harmful to aquatic life with long lasting effects.

**GHS Classification**

Oxidizing liquids	:	Category 2
Acute toxicity (Oral)	:	Category 4
Acute toxicity (Inhalation)	:	Category 5
Skin corrosion/irritation	:	Category 2
Serious eye damage/eye irritation	:	Category 1
Specific target organ toxicity - single exposure	:	Category 3 (respiratory tract irritation)
Acute aquatic toxicity	:	Category 2
Chronic aquatic toxicity	:	Category 3

**GHS Label element**

Hazard pictograms	:	
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Signal Word : Danger

Hazard Statements : May intensify fire; oxidiser.  
Harmful if swallowed.  
Causes skin irritation.  
Causes serious eye damage.

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May be harmful if inhaled.  
May cause respiratory irritation.  
Toxic to aquatic life.  
Harmful to aquatic life with long lasting effects.

Precautionary Statements : **Prevention:**  
Keep away from heat. Keep/Store away from clothing and other combustible materials. Take any precaution to avoid mixing with combustibles. Avoid breathing mist or vapours. Wash skin thoroughly after handling. Do not eat, drink or smoke when using this product. Avoid release to the environment. Wear protective gloves/ eye protection/ face protection.

**Response:**  
IF SWALLOWED: Call a POISON CENTER or doctor/ physician if you feel unwell. Rinse mouth. IF ON SKIN: Wash with plenty of water. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor/ physician if you feel unwell. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/ physician. If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash it before reuse. In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.

**Storage:**  
Store in a well-ventilated place. Keep container tightly closed. Store locked up.

**Disposal:**  
Dispose of contents/ container to an approved waste disposal plant.

Other hazards : None known.

### 3. SECTION COMPOSITION/INFORMATION ON INGREDIENTS

Pure substance/mixture : Mixture

Chemical Name	CAS-No.	Concentration: (%)
Hydrogen peroxide	7722-84-1	>= 32.5 - < 37.5

### 4. SECTION FIRST AID MEASURES

In case of eye contact : Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention immediately.

In case of skin contact : Wash off immediately with plenty of water for at least 15 minutes. Use a mild soap if available. Get medical attention if irritation develops and persists.

If swallowed : Rinse mouth. Get medical attention if symptoms occur.

If inhaled : Remove to fresh air. Treat symptomatically. Get medical attention if symptoms occur.

Protection of first-aiders : If potential for exposure exists refer to Section 8 for specific personal protective equipment.

Notes to physician : Treat symptomatically.

Most important symptoms : See Section 11 for more detailed information on health effects and

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and effects, both acute and delayed symptoms.

#### 5. SECTION FIRE-FIGHTING MEASURES

- Suitable extinguishing media : Water
- Unsuitable extinguishing media : Carbon dioxide (CO<sub>2</sub>)  
Foam  
Dry chemical
- Specific hazards during firefighting : Oxidizer. Contact with other material may cause fire.
- Hazardous combustion products : Decomposition products may include the following materials:  
Oxygen
- Special protective equipment for firefighters : Use personal protective equipment.
- Specific extinguishing methods : Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. In the event of fire and/or explosion do not breathe fumes.

#### 6. SECTION ACCIDENTAL RELEASE MEASURES

- Personal precautions, protective equipment and emergency procedures : Ensure adequate ventilation. Keep people away from and upwind of spill/leak. Eliminate any possible source of ignition. Avoid inhalation, ingestion and contact with skin and eyes. When workers are facing concentrations above the exposure limit they must use appropriate certified respirators. Ensure clean-up is conducted by trained personnel only. Refer to protective measures listed in sections 7 and 8.
- Environmental precautions : Do not allow contact with soil, surface or ground water.
- Methods and materials for containment and cleaning up : Stop leak if safe to do so. Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13). Flush away traces with water. Isolate absorbed wastes contaminated with this product from other waste streams containing combustible materials (paper, wood fibers, cloth, etc.).

#### 7. SECTION HANDLING AND STORAGE

- Advice on safe handling : Do not ingest. Avoid contact with skin and eyes. Do not breathe dust/fume/gas/mist/vapours/spray. Use only with adequate ventilation. Wash hands thoroughly after handling. Do not get in eyes, on skin, or on clothing. In case of mechanical malfunction, or if in contact with unknown dilution of product, wear full Personal Protective Equipment (PPE).
- Conditions for safe storage : Do not store on wooden pallets. Keep in a cool, well-ventilated place. Keep away from reducing agents. Keep away from combustible material. Keep out of reach of children. Keep container tightly closed. Keep cool. Protect from sunlight. Store in suitable labeled containers.

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Storage temperature : 5 °C to 25 °C

### 8. SECTION EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Components with workplace control parameters

Components	CAS-No.	Form of exposure	Permissible concentration	Basis
Hydrogen peroxide	7722-84-1	PC-TWA	1.5 mg/m <sup>3</sup>	GBZ 2.1-2019

Engineering measures : Effective exhaust ventilation system. Maintain air concentrations below occupational exposure standards.

#### Personal protective equipment

Eye protection : Safety goggles  
Face-shield

Hand protection : Wear the following personal protective equipment:  
Standard glove type.  
Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough.

Skin protection : No special protective equipment required.

Respiratory protection : When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.

Hygiene measures : Handle in accordance with good industrial hygiene and safety practice. Remove and wash contaminated clothing before re-use. Wash face, hands and any exposed skin thoroughly after handling. Provide suitable facilities for quick drenching or flushing of the eyes and body in case of contact or splash hazard.

### 9. SECTION PHYSICAL AND CHEMICAL PROPERTIES

Appearance : liquid  
Colour : clear, colourless  
Odour : odourless  
pH : 1.5 - 3.5, (100 %)  
Flash point : Not applicable.  
Odour Threshold : no data available  
Melting point/freezing point : no data available  
Initial boiling point and boiling range : > 100 °C  
Evaporation rate : no data available  
Flammability (solid, gas) : Not applicable.  
Upper explosion limit : no data available  
Lower explosion limit : no data available

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Vapour pressure	: no data available
Relative vapour density	: no data available
Relative density	: 1.1 - 1.2
Water solubility	: soluble
Solubility in other solvents	: no data available
Partition coefficient: n-octanol/water	: log Pow: -1.57Method: Calculated
Auto-ignition temperature	: no data available
Thermal decomposition	: no data available
Viscosity, kinematic	: 0.980 mm <sup>2</sup> /s (40 °C)
Explosive properties	: no data available
Oxidizing properties	: Yes
Molecular weight	: no data available
VOC	: no data available

### 10. SECTION STABILITY AND REACTIVITY

Reactivity	: Heating may cause an explosion.
Chemical stability	: Contamination may result in dangerous pressure increases - closed containers may rupture.
Possibility of hazardous reactions	: No dangerous reaction known under conditions of normal use.
Conditions to avoid	: Freezing temperatures. Heat. Exposure to sunlight.
Incompatible materials	: Reducing agents Organic materials Bases Strong oxidizing agents Strong acids Combustible material Metals
Hazardous decomposition products	: In case of fire hazardous decomposition products may be produced such as: Oxygen

### 11. SECTION TOXICOLOGICAL INFORMATION

Information on likely routes of exposure : Inhalation, Eye contact, Skin contact

#### Potential Health Effects

Eyes	: Causes serious eye damage.
Skin	: Causes skin irritation.

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- Ingestion : Harmful if swallowed.
- Inhalation : May be harmful if inhaled. May cause respiratory tract irritation. May cause nose, throat, and lung irritation.
- Chronic Exposure : Health injuries are not known or expected under normal use.

#### Experience with human exposure

- Eye contact : Redness, Pain, Corrosion
- Skin contact : Redness, Irritation
- Ingestion : No information available.
- Inhalation : Respiratory irritation, Cough

#### Toxicity

##### Product

- Acute oral toxicity : Acute toxicity estimate : 1,389 mg/kg
- Acute inhalation toxicity : 4 h Acute toxicity estimate : 31.43 mg/l  
Test atmosphere: vapour
- Acute dermal toxicity : no data available
- Skin corrosion/irritation : no data available
- Serious eye damage/eye irritation : no data available
- Respiratory or skin sensitization : no data available
- Carcinogenicity : no data available
- Reproductive effects : no data available
- Germ cell mutagenicity : no data available
- Teratogenicity : no data available
- STOT - single exposure : no data available
- STOT - repeated exposure : no data available
- Aspiration toxicity : no data available

## 12. SECTION ECOLOGICAL INFORMATION

#### Toxicity

- Environmental Effects : Toxic to aquatic life. Harmful to aquatic life with long lasting effects.

#### Product

- Toxicity to fish : no data available
- Toxicity to daphnia and other aquatic invertebrates : no data available
- Toxicity to algae : no data available
- Toxicity to daphnia and other aquatic invertebrates : 21 d NOEC Daphnia magna (Water flea): 0.63 mg/l

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(Chronic toxicity)

### Components

Toxicity to fish : Hydrogen peroxide  
96 h LC50 Pimephales promelas (fathead minnow): 16.4 mg/l

### Components

Toxicity to daphnia and other : Hydrogen peroxide  
aquatic invertebrates 48 h LC50 Daphnia magna (Water flea): 2.4 mg/l

### Components

Toxicity to algae : Hydrogen peroxide  
72 h EC50 Skeletonema costatum (marine diatom): 1.38 mg/l

### Persistence and degradability

Not applicable - inorganic

### Bioaccumulative potential

no data available

### Mobility in soil

no data available

### Other adverse effects

no data available

## 13. SECTION DISPOSAL CONSIDERATIONS

Disposal methods : Do not contaminate storm water drains, natural waterways or soil with chemical or used container. Where possible recycling is preferred to disposal or incineration. If recycling is not practicable, dispose of contents/container in accordance with local regulations Dispose of as hazardous waste in compliance with local and national regulations.

Disposal considerations : Dispose of as unused product. Empty containers should be taken to an approved waste handling site for recycling or disposal. Do not re-use empty containers. Dispose of in accordance with local, state, and federal regulations.

## 14. SECTION TRANSPORT INFORMATION

The shipper/consignor/sender is responsible to ensure that the packaging, labeling, and markings are in compliance with the selected mode of transport.

### Land transport (CN\_DG)

UN number : 2014  
Description of the goods : HYDROGEN PEROXIDE, AQUEOUS SOLUTION  
Class : 5.1 (8)  
Packing group : II  
Environmentally hazardous : No

### Air transport (IATA)

Not permitted for transport

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### Sea transport (IMDG/IMO)

UN number : 2014  
Proper shipping name : HYDROGEN PEROXIDE, AQUEOUS SOLUTION  
Class : 5.1 (8)  
Packing group : II  
Marine pollutant : No

Special precautions for user : None

Self-Accelerating decomposition temperature (SADT) : 60 °C

## 15. SECTION REGULATORY INFORMATION

### National Regulations

Regulations on the Safety Administration of Dangerous Chemicals  
China Inventory of Existing Chemical Substances  
General rule for classification and hazard communication of chemicals  
GB/T 16483: Safety Data Sheet for chemical products content and order of sections  
GB 15258: General Rule for preparation of precautionary label for chemicals  
GB/T 17519: Guidance on the compilation of safety data sheet for chemical products  
GB 30000.2-29: Rules for classification and labelling of chemicals

### The components of this product are reported in the following inventories:

#### United States TSCA Inventory :

All substances listed as active on the TSCA inventory

#### Canadian Domestic Substances List (DSL) :

All components of this product are on the Canadian DSL.

#### Australia. Australian Industrial Chemicals Introduction Scheme (AICIS) :

On the inventory, or in compliance with the inventory

#### New Zealand. Inventory of Chemicals (NZIoC), as published by ERMA New Zealand :

not determined

#### Japan. ENCS - Existing and New Chemical Substances Inventory :

On the inventory, or in compliance with the inventory

#### Korea. Korean Existing Chemicals Inventory (KECI) :

On the inventory, or in compliance with the inventory

#### Philippines Inventory of Chemicals and Chemical Substances (PICCS) :

On the inventory, or in compliance with the inventory

#### China Inventory of Existing Chemical Substances :

On the inventory, or in compliance with the inventory

#### Taiwan Chemical Substance Inventory :

On the inventory, or in compliance with the inventory

## 16. SECTION OTHER INFORMATION

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Issuing date : 2022.05.04  
Version : 1.6  
Prepared by : Regulatory Affairs

REVISED INFORMATION: Significant changes to regulatory or health information for this revision is indicated by a bar in the left-hand margin of the SDS.

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.