

**BIOQUELL HYDROGEN PEROXIDE STERILANT**

**SECTION 1. PRODUCT AND COMPANY IDENTIFICATION**

Product name : BIOQUELL HYDROGEN PEROXIDE STERILANT

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 : Bioquell, Inc  
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Emergency health information : USA (Toll-Free): +1 866 519 4752. USA: +1 760 476 3962. Use access code: 333809

Issuing date : 05/10/2022

**SECTION 2. HAZARDS IDENTIFICATION**

**GHS Classification**

Oxidizing liquids : Category 2

Acute toxicity (Oral) : Category 4

Acute toxicity (Inhalation) : Category 4

Skin irritation : Category 2

Serious eye damage : Category 1

Specific target organ toxicity - single exposure : Category 3 (Respiratory system)

**GHS label elements**

Hazard pictograms : 

Signal Word : Danger

Hazard Statements : May intensify fire; oxidizer.  
Harmful if swallowed or if inhaled.  
Causes skin irritation.  
Causes serious eye damage.  
May cause respiratory irritation.

Precautionary Statements : **Prevention:**  
Keep away from heat. Keep/Store away from clothing/ combustible materials. Take any precaution to avoid mixing with combustibles. Avoid breathing mist or vapors. Wash skin thoroughly after handling. Do not eat, drink or smoke when using this product. Wear protective gloves/ eye protection/ face protection.  
**Response:**  
IF SWALLOWED: Call a POISON CENTER/ doctor if you feel unwell.

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Rinse mouth. IF ON SKIN: Wash with plenty of soap and water. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/ doctor 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/ doctor. If skin irritation occurs: Get medical advice/ attention. Take off contaminated clothing and wash before reuse. In case of fire: Use water spray 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.

## SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Pure substance/mixture : Mixture

Chemical name	CAS-No.	Concentration (%)
Hydrogen peroxide	7722-84-1	30 - 60

## SECTION 4. 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.

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 and effects, both acute and delayed : See Section 11 for more detailed information on health effects and symptoms.

## SECTION 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media : Water

Unsuitable extinguishing media : Dry chemical  
Carbon dioxide (CO<sub>2</sub>)  
Foam

Specific hazards during fire fighting : Oxidizer. Contact with other material may cause fire.

Hazardous combustion : Decomposition products may include the following materials:



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		exposure	concentration	
Hydrogen peroxide	7722-84-1	TWA	1 ppm	ACGIH
		TWA	1 ppm 1.4 mg/m <sup>3</sup>	NIOSH REL
		TWA	1 ppm 1.4 mg/m <sup>3</sup>	OSHA Z-1

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

#### Personal protective equipment

Eye protection : Wear eye protection and/or face protection.

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. 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.

#### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	: liquid
Color	: clear, colorless
Odor	: odorless
pH	: 1.5 - 3.5, (100 %)
Flash point	: Not applicable
Odor 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
Vapor pressure	: No data available
Relative vapor density	: No data available
Relative density	: 1.1 - 1.2
Water solubility	: soluble
Solubility in other solvents	: No data available

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Partition coefficient: n-octanol/water	: log Pow: -1.57Method: Calculated
Autoignition 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	: The substance or mixture is classified as oxidizing with the category 2.
Molecular weight	: No data available
VOC	: No data available

### SECTION 10. STABILITY AND REACTIVITY

Reactivity	: No dangerous reaction known under conditions of normal use.
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	: Strong oxidizing agents Organic materials Strong acids Bases Reducing agents Metals Combustible material Heavy metal salts
Hazardous decomposition products	: In case of fire hazardous decomposition products may be produced such as: Oxygen

### SECTION 11. 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.
Ingestion	: Harmful if swallowed.
Inhalation	: May cause respiratory tract irritation. Harmful if inhaled. May cause nose, throat, and lung irritation.
Chronic Exposure	: Health injuries are not known or expected under normal use.

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#### 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 : 2 mg/l Test atmosphere: dust/mist
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

### SECTION 12. ECOLOGICAL INFORMATION

#### Ecotoxicity

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

Toxicity to fish	: No data available
Toxicity to daphnia and other aquatic invertebrates	: No data available
Toxicity to algae	: No data available

#### Components

Toxicity to fish	: Hydrogen peroxide 96 h LC50 Pimephales promelas: 16.4 mg/l
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#### Components

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

### SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods : Do not contaminate ponds, waterways or ditches with chemical or used container. Where possible recycling is preferred to disposal or incineration. If recycling is not practicable, dispose of in compliance with local regulations. Dispose of wastes in an approved waste disposal facility.

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.

RCRA - Resource Conservation and Recovery Authorization Act Hazardous waste : D002 (Corrosive)

### SECTION 14. 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 (DOT)

UN number : 2014  
Description of the goods : Hydrogen peroxide, aqueous solutions  
Class : 5.1 (8)  
Packing group : II  
Environmentally hazardous : no

#### Sea transport (IMDG/IMO)

UN number : 2014  
Proper shipping name : HYDROGEN PEROXIDE, AQUEOUS SOLUTION  
Class : 5.1 (8)  
Packing group : II  
Marine pollutant : no  
  
Self-Accelerating decomposition temperature : 60 °C

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(SADT)

### SECTION 15. REGULATORY INFORMATION

**EPA Registration number** : 72372-1-86703

#### **EPCRA - Emergency Planning and Community Right-to-Know**

##### **CERCLA Reportable Quantity**

This material does not contain any components with a CERCLA RQ.

##### **SARA 304 Extremely Hazardous Substances Reportable Quantity**

This material does not contain any components with a section 304 EHS RQ.

**SARA 311/312 Hazards** : Oxidizer (liquid, solid or gas)  
Acute toxicity (any route of exposure)  
Skin corrosion or irritation  
Serious eye damage or eye irritation  
Specific target organ toxicity (single or repeated exposure)

**SARA 302** : The following components are subject to reporting levels established by SARA Title III, Section 302:  
Hydrogen peroxide 7722-84-1 30 - 50 %

**SARA 313** : This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

#### **California Prop. 65**

This product does not contain any chemicals known to the State of California to cause cancer, birth, or any other reproductive defects.

#### **California Cleaning Product Right to Know Act of 2017 (SB 258)**

This regulation applies to this product.

Chemical Name	CAS-No.	Function	List(s)
water	7732-18-5	Solvent	Not Applicable
Hydrogen peroxide	7722-84-1	Biocide	Not Applicable

\*refer to [ecolab.com/sds](http://ecolab.com/sds) for electronic links to designated lists

#### **The ingredients 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 Chemical Substances :**

not determined

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

On the inventory, or in compliance with the inventory



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### 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 in China (IECSC) :

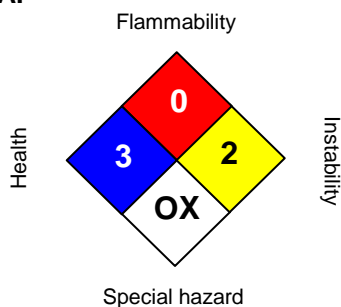
On the inventory, or in compliance with the inventory

### Taiwan Chemical Substance Inventory (TCSI) :

On the inventory, or in compliance with the inventory

## SECTION 16. OTHER INFORMATION

### NFPA:



### HMIS III:

<b>HEALTH</b>	<b>3</b>
<b>FLAMMABILITY</b>	<b>0</b>
<b>PHYSICAL HAZARD</b>	<b>2</b>

0 = not significant, 1 = Slight,  
2 = Moderate, 3 = High  
4 = Extreme, \* = Chronic

Issuing date : 05/10/2022  
Version : 1.2  
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.