

**Section: 1. PRODUCT AND COMPANY IDENTIFICATION**

Product name : BIOQUELL HPV-AQ  
 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.

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**Section: 2. HAZARDS IDENTIFICATION**
**GHS Classification**

Acute toxicity (Oral) : Category 4  
 Acute toxicity (Inhalation) : Category 4  
 Skin corrosion/irritation : Category 2  
 Serious eye damage/eye irritation : Category 1  
 Specific target organ toxicity - single exposure : Category 3 (Respiratory tract irritation)

**GHS Label element**

Hazard pictograms :



Signal Word : Danger

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

Precautionary Statements : **Prevention:**  
 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray. Wash skin

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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 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.

### 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	35

## Section: 4. FIRST AID MEASURES

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

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.

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.

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

## Section: 5. FIREFIGHTING MEASURES

Suitable extinguishing media : Water

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

Specific hazards during : Not flammable or combustible.

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firefighting

Special protective equipment for firefighters : Use personal protective equipment.

Specific extinguishing methods : 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.

### Section: 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures : Ensure adequate ventilation. Keep people away from and upwind of spill/leak. 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. Eliminate any possible source of ignition.

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. For large spills, dike spilled material or otherwise contain material to ensure runoff does not reach a waterway.

### Section: 7. 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).

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.

Conditions for safe storage : Keep in the original container only, in a cool and well-ventilated place, out of the light and away from combustible materials and reducing agents (amines), acids, bases, heavy metal compounds (accelerators, siccative agents, metallic salts). Do not store on wooden pallets. Keep out of reach of children. Keep container tightly closed. Store in suitable labeled containers.

Storage temperature : Refer to product label or ask your local Sales Representative.

### Section: 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Threshold limit value and permissible exposure limits for each component in the work environment

Contains no substances with occupational exposure limit values.

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#### 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.  
Nitrile rubber  
butyl-rubber  
Unsupported neoprene  
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.

### Section: 9. PHYSICAL AND CHEMICAL PROPERTIES

- Appearance : liquid
- Colour : clear, colourless
- Odour : odourless
- Melting point/freezing point : no data available
- Initial boiling point and boiling range : > 100 °C
- Flammability : (solid, gas): Not applicable.  
(liquid): no data available
- Lower and upper explosion limit/flammability limit : no data available
- Flash point : Not applicable.
- Auto-ignition temperature : no data available
- Thermal decomposition : no data available
- pH : 1.5 - 3.5, (100 %)
- Viscosity : Viscosity, kinematic: 0.980 mm<sup>2</sup>/s (40 °C)
- Solubility : soluble (water)
- Partition coefficient: n-octanol/water : log Pow: -1.57 Method: Calculated
- Vapour pressure : no data available
- Relative density : 1.1 - 1.2
- Relative vapour density : no data available
- Particle characteristics : no data available

### Section: 10. STABILITY AND REACTIVITY

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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	: Bases Strong acids Reducing agents Strong oxidizing agents Organic materials Combustible material Metals
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.
Chronic Exposure	: Health injuries are not known or expected under normal use.

#### Experience with human exposure

Eye contact	: Redness, Pain, Corrosion
Skin contact	: Redness, Pain, Irritation
Ingestion	: Vomiting
Inhalation	: Respiratory irritation, Cough

#### Toxicity

##### Product

Acute oral toxicity	: Acute toxicity estimate : 1,389 mg/kg
Acute inhalation toxicity	: 4 h Acute toxicity estimate : > 10 mg/l Test atmosphere: vapour

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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
STOT - single exposure	: no data available
STOT - repeated exposure	: no data available
Aspiration toxicity	: no data available

## Section: 12. ECOLOGICAL INFORMATION

### Toxicity

Environmental Effects : This product has no known ecotoxicological effects.

### 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 (fathead minnow): 16.4 mg/l

### Components

Toxicity to daphnia and other aquatic invertebrates : Hydrogen peroxide  
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

### Hazard to the ozone layer

no data available

### Other adverse effects

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no data available

### Section: 13. DISPOSAL CONSIDERATIONS

#### Information on safe and environmentally desirable disposal or recycling of the chemical (waste from residues), contaminated containers and packaging to which the chemicals are attached

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.

### 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

UN number : 2014  
Proper shipping name : HYDROGEN PEROXIDE, AQUEOUS SOLUTION  
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 : Not applicable

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

Regulatory information in case there are domestic regulations:

Land transportation: Follow the transportation methods stipulated in the Fire Service Law, Poisonous and Deleterious Substances Control Law, Industrial Safety and Health Law, etc.

Sea transportation: Follow the transportation method stipulated in the Ship Safety Law.

Air transportation: Follow the transportation method stipulated in the Aviation Law.

### Section: 15. REGULATORY INFORMATION

#### National regulatory information

#### Industrial Safety and Health Law

##### Publication of Technical Guidelines Article 28 (3)

Not applicable.

#### Mutagenic existing chemical substances

Not applicable.

#### Mutagenic new chemical substances

Not applicable.

#### Hazardous Substances Requiring Notification SDS Table 9

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Article 57-2 (Enforcement Order Table 9)

Chemical Name	Concentration: (%)
Hydrogen peroxide	30 - 40

### Hazardous Substances Subject to Labeling Requirements

Article 57 (Enforcement Order Article 18)

Chemical Name
Hydrogen peroxide

### Ordinance on Prevention of Specified Chemical Substances Hazards

Not applicable.

### Ordinance on Prevention of Organic Solvent Poisoning

Not applicable.

### Enforcement Order of the Industrial Safety and Health Law: Dangerous Substances

Not applicable.

### Poisonous and Deleterious Substances Control Law

Chemical Name	Classification	Concentration: (%)
Hydrogen peroxide	Deleterious substance	35

### Law concerning Pollutant Release and Transfer Register (PRTR Law)

Not applicable.

### Information of the other applicable regulations name and regulations based on its regulation.

### Fire Service Law

Not applicable to dangerous materials / designated flammables.

### Water Pollution Control Law

Designated substance (Law Art. 2-4, Enforcement Order Art. 3-3)

Chemical Name
Hydrogen peroxide

## Section: 16. OTHER INFORMATION

Sources of key data used to compile the Safety Data Sheet  
Globally Harmonized System of Classification and Labelling of Chemicals (GHS)  
IARC: (International Agency for Research on Cancer)  
US. National Toxicology Program (NTP) Report on Carcinogens  
ECHA List of Publishable Substances Registered  
EU HPVCs (High Production Volume Chemicals)

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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.