# SAFETY DATA SHEET

## Bioquell HPV-AQ

## Section: 1. PRODUCT AND COMPANY IDENTIFICATION

| | | |
|---|---|---|
| Product name | : | 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 Ltd.<br>52 Royce Close, West Portway<br>SP10 3TS Andover<br>United Kingdom<br>+44 (0) 1264 835 835, +44 (0) 1264 835 836<br>Bioquell.consumables@ecolab.com |
| Emergency telephone number | : | +1 760 476 3959. Use access code: 333809 |
| Issuing date | : | 05.05.2022 |

## Section: 2. HAZARDS IDENTIFICATION

### GHS Classification

| | | |
|---|---|---|
| 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 element

Hazard pictograms :

Signal Word : Danger

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

Precautionary Statements : **Prevention:**
Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray. Do not eat, drink or smoke when using this product. Wear protective gloves/ eye protection/ face protection.
**Response:**
Immediately call a POISON CENTER or doctor/ physician. IF

SWALLOWED: Call a POISON CENTER or doctor/ physician if you feel unwell. Rinse mouth. IF ON SKIN: Wash with plenty of soap and water. IF INHALED: Remove person to fresh air and keep comfortable for breathing. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
**Disposal:**
Dispose of contents/container in accordance with local/regional/national/international regulations.

**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. FIREFIGHTING MEASURES

Suitable extinguishing media : Water

Unsuitable extinguishing media : Anything other than water
Carbon dioxide (CO2)
Dry chemical
Foam

Specific hazards during firefighting : Not flammable or combustible.

Hazardous combustion products : Depending on combustion properties, decomposition products may include following materials:
Oxygen

| | | |
|---|---|---|
| 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. Collect contaminated fire extinguishing water separately. This must not be discharged into drains. |

## 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. Do not get in eyes, on skin, or on clothing. Do not breathe dust/fume/gas/mist/vapours/spray. Use only with adequate ventilation. Wash hands thoroughly after handling. 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 out of reach of children. Store in suitable labeled containers. |
| Storage temperature | : | 5 °C to 25 °C |

## Section: 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Components with workplace control parameters**

| Components | CAS-No. | Form of exposure | Permissible concentration | Basis |
|---|---|---|---|---|
| Hydrogen peroxide | 7722-84-1 | TWA | 1 ppm<br>1.4 mg/m3 | BH OEL |
| Hydrogen peroxide | 7722-84-1 | TWA | 1 ppm<br>1.4 mg/m3 | ARE OEL |
| Hydrogen peroxide | 7722-84-1 | TWA | 1 ppm | ACGIH |
| | | TWA | 1 ppm<br>1.4 mg/m3 | NIOSH REL |
| | | TWA | 1 ppm<br>1.4 mg/m3 | OSHA Z-1 |

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

**Personal protective equipment**

| | | |
|---|---|---|
| Eye protection | : | Wear eye protection/face protection. |
| Hand protection | : | Recommended preventive skin protection<br>Gloves<br>Nitrile rubber<br>butyl-rubber<br>Breakthrough time: 1 – 4 hours<br>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 |
| 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 |
| 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 mm2/s (40 °C) |
| Explosive properties | : | no data available |
| Oxidizing properties | : | Yes |
| 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 | : | Heat.<br>Exposure to light.<br>Freezing temperatures. |
| Incompatible materials | : | Bases<br>Reducing agents<br>Organic materials<br>Strong oxidizing agents<br>Strong acids<br>Combustible material<br>Metals |
| Hazardous decomposition products | : | Depending on combustion properties, decomposition products may include following materials:<br>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. |

**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<br>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 |

## 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<br>96 h LC50 Pimephales promelas (fathead minnow): 16.4 mg/l |

**Components**

| | | |
|---|---|---|
| Toxicity to daphnia and other aquatic invertebrates | : | Hydrogen peroxide<br>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

## 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 contents/container in accordance 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. |

## 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 (ADR/ADN/RID)**

| | | |
|---|---|---|
| UN number | : | 2014 |
| UN proper shipping name | : | HYDROGEN PEROXIDE, AQUEOUS SOLUTION |
| Transport hazard class(es) | : | 5.1 (8) |
| Packing group | : | II |
| Environmental hazards | : | No |
| Special precautions for user | : | None |

**Air transport (IATA)**

Not permitted for transport

**Sea transport (IMDG/IMO)**

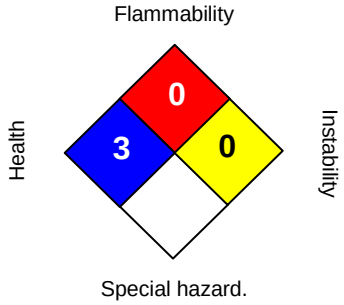
| | | |
|---|---|---|
| UN number | : | 2014 |
| Proper shipping name | : | HYDROGEN PEROXIDE, AQUEOUS SOLUTION |
| Class | : | 5.1 (8) |
| Packing group | : | II |
| Marine pollutant | : | No |
| Self-Accelerating decomposition temperature (SADT) | : | 60 °C |

## Section: 15. REGULATORY INFORMATION

For Regulatory information please contact your Ecolab sales representative.

## Section: 16. OTHER INFORMATION

**NFPA:**




**HMIS III:**

| | |
|---|---|
| HEALTH | 3 |
| FLAMMABILITY | 0 |
| PHYSICAL HAZARD | 0 |

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

| | | |
|---|---|---|
| Issuing date | : | 05.05.2022 |
| Version | : | 1.0 |
| 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.

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