SAFETY DATA SHEET

BIOQUELL HPV-AQ

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.
Company	:	Ecolab Ltd. 52 Royce Close, West Portway SP10 3TS Andover, United Kingdom +44 (0) 1264 835 835 Bioquell.enquiries@ecolab.com Supplier: Higuchi Inc. 2-16-2 Kohnan, Minato-ku Tokyo, Japan 03-5479-5592
Emergency telephone number	:	Asia-Pacific: +81 36890867. Use access code: 333809
Issuing date	:	2024.06.20

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

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 (CO2)
Foam
Dry chemical

Specific hazards during : Not flammable or combustible.

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	:	Do not store on wooden pallets. Keep out of reach of children. Keep container tightly closed. Store in suitable labeled containers. 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).
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.

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 mm2/s (40 °C)
Solubility	:	soluble (water)
Partition coefficient: n-octanol/water	:	log Pow: -1.57Method: 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

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	:	Strong oxidizing agents Bases Strong acids Reducing agents Organic materials
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 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
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

Components

Skin corrosion/irritation	:	Hydrogen peroxide Skin corrosion/irritation - Sub-category 1A

Components

Serious eye damage/eye irritation	:	Hydrogen peroxide Serious eye damage/eye irritation - Category 1

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 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

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 Low, Poisonous and Deleterious Substances Control Law, Industrial Safety and Health Low, 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.

Carcinogenic Substances (Article 577-2 of the Occupational Health and Safety Regulations)
Not applicable.

Mutagenic existing chemical substances

Not applicable.

Mutagenic new chemical substances
Not applicable.

Hazardous Substances Requiring Notification SDS Table 9

Article 57-2 (Enforcement Order Table 9)

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

Hazardous Substances Subject to Labeling Requirements

Article 57 (Enforcement Order Article 18)

Chemical Name	Remarks
hydrogen peroxide	-

Skin and Eye Damage Substances for PPE Requirements (ISHL MO Art. 594-2)

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

Oxidizing

Poisonous and Deleterious Substances Control Law

Chemical Name	Classification
Hydrogen peroxide	Deleterious substance

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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