SAFETY DATA SHEET
ACCORDING TO EC-REGULATIONS 1907/2006 (REACH) & 1272/2008 (CLP)

1. SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier
Product Name: Bioquell HPV-AQ
Chemical Name: Hydrogen Peroxide
Molecular Formula: H2O2
Type of Product: Mixture

1.2 Relevant identified uses of the substance or mixture and uses advised against
Identified use(s): To be used in conjunction with Bioquell Hydrogen Peroxide Vapour Generating Equipment.
Product is for professional use only

Details of the supplier of the Safety Data Sheet

1.3 Company Identification
Bioquell UK Limited
52 Royce Close
West Portway
Andover
Hampshire
SP10 3TS

Telephone: +44 (0) 1264 835 835
Fax: +44 (0) 1264 835 836
E-Mail (competent person): consumables@bioquell.com

1.4 Emergency telephone number out of hours
Emergency Phone No. during office hours: +44 (0) 1264 835 835 (08.00 – 17.00 GMT Monday - Friday)

2. SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

2.1.1 Regulation (EC) No. 1272/2008 (CLP)
Acute Tox. 4, Oral. H302, Inhalation H332
Skin Irrit. 2, H315
Serious Eye Dam. 1, H318
STOT SE 3. Inhalation. H335

Xn, R22
Xi, R37/38, R41

2.2 Label elements

2.2.1 Label elements
Name(s) on Label: According to Regulation (EC) No. 1272/2008 (CLP)
Hazardous components: Hydrogen peroxide (35%)
Signal Word: DANGER
### Hazard Pictogram

**Hazard statement(s)**
- H302: Harmful if swallowed
- H315: Causes skin irritation
- H332: Harmful if inhaled
- H318: Causes serious eye damage
- H335: May cause respiratory irritation

**Precautionary statement(s)**

<table>
<thead>
<tr>
<th>Prevention</th>
<th>Response</th>
</tr>
</thead>
<tbody>
<tr>
<td>P261: Avoid breathing gas/mist/vapours/spray.</td>
<td>P301 + P312: IF SWALLOWED: call a POISON CENTRE or doctor/physician</td>
</tr>
<tr>
<td>P280: Wear protective gloves/protective clothing/eye protection/face protection.</td>
<td>P302 + P352: IF ON SKIN: Wash with plenty of soap and water.</td>
</tr>
<tr>
<td>P310: Immediately call a POISON CENTRE or doctor/physician</td>
<td>P305 + P351 + P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.</td>
</tr>
</tbody>
</table>

| 2.2.2 Label elements |

| Hazard Symbol |

**Risk Phrases**
- R22: Harmful if swallowed.
- R37/38: Irritating to respiratory system and skin.
- R41: Risk of serious damage to eyes.

**Safety Phrases**
- S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
- S-27/S-28: After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of water.
- S36/37/39: Wear suitable protective clothing, gloves and eye/face protection.
- S45: In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

<table>
<thead>
<tr>
<th>2.3 Other hazards</th>
<th>2.4 Additional Information</th>
</tr>
</thead>
<tbody>
<tr>
<td>None</td>
<td>None</td>
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</tbody>
</table>


3. **SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**

3.2 Mixtures
3.2.1. Concentration

<table>
<thead>
<tr>
<th>Substance Name:</th>
<th>Concentration</th>
</tr>
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<tbody>
<tr>
<td>Hydrogen peroxide</td>
<td>Ca. 35%</td>
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</table>

CAS-No.: 7722-84-1 / EC-No.:231-765-0 / Index-No.: 008-003-00-9
REACH Registration Number: 01-2119485845-22

<table>
<thead>
<tr>
<th>Hazardous ingredient(s)</th>
<th>Hazard Class</th>
<th>Hazard Category</th>
<th>Route of exposure</th>
<th>H Phrases</th>
<th>Hazard pictogram(s) and Hazard statement(s)</th>
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<tbody>
<tr>
<td>Hydrogen Peroxide</td>
<td>Oxidizing liquids</td>
<td>Category 1</td>
<td></td>
<td>H271</td>
<td>Oxidising Liq. 1, H271, Acute Tox. 4 (Inhalation), H332, Acute Tox. 4 (Oral), H302, Skin Corr. 1A, H314, Eye Dam. 1, H318, STOT SE3, H335</td>
</tr>
<tr>
<td>Acute toxicity</td>
<td>Category 4</td>
<td>Inhalation</td>
<td>H332</td>
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<td>Acute Tox. 4 (Inhalation), H302, Skin Corr. 1A, H314, Eye Dam. 1, H318, STOT SE3, H335</td>
</tr>
<tr>
<td>Acute toxicity</td>
<td>Category 4</td>
<td>Oral</td>
<td>H302</td>
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<td>Acute Tox. 4 (Oral), H302, Skin Corr. 1A, H314, Eye Dam. 1, H318, STOT SE3, H335</td>
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<tr>
<td>Skin corrosion</td>
<td>Category 1A</td>
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<td>H314</td>
<td>Skin Corr. 1A, H314, Eye Dam. 1, H318, STOT SE3, H335</td>
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<tr>
<td>Serious eye damage</td>
<td>Category 1</td>
<td></td>
<td></td>
<td>H318</td>
<td>Eye Dam. 1, H318, STOT SE3, H335</td>
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<tr>
<td>Specific target organ toxicity – single exposure</td>
<td>Category 3</td>
<td>Inhalation</td>
<td>H335</td>
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</table>

<table>
<thead>
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<th>Hazardous ingredient(s)</th>
<th>Classification</th>
<th>Hazard category</th>
<th>R-phrase(s)</th>
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<tr>
<td>Hydrogen Peroxide</td>
<td></td>
<td>R5</td>
<td></td>
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<tr>
<td>O</td>
<td>Oxidising</td>
<td>R8</td>
<td></td>
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<tr>
<td>C</td>
<td>Corrosive</td>
<td>R35</td>
<td></td>
</tr>
<tr>
<td>Xn</td>
<td>Harmful</td>
<td>R20/22</td>
<td></td>
</tr>
</tbody>
</table>

3.3 Additional Information
For full text of H/P and R/S phrases see section 16.

4. **SECTION 4: FIRST AID MEASURES**

4.1 **Description of first aid measures**

**If inhaled**
Move the exposed person to fresh air immediately. Seek medical attention when anyone has symptoms apparently due to inhalation.

**In case of skin contact**
Wash with plenty of water and soap.
Remove and wash contaminated clothing before re-use. If symptoms persist seek immediate medical attention.

**In case of eye contact**
Seek immediate medical attention.
Eyes should be washed immediately with plenty of water for at least 10-15 minutes. Also wash under eyelids for at least 15 minutes.
In the case of difficulty of opening the lids, administer an analgesic eye wash (oxybuprocaine)

**If swallowed**
Seek immediate medical attention.
Wash out mouth with water, and drink plenty of water (200-300ml).
DO NOT INDUCE VOMITING.
Oxygen or artificial respiration if needed

### 4.2 Most important symptoms and effects, both acute and delayed

**Inhalation**
Inhalation of vapours is irritating to the respiratory system, may cause throat pain and cough
Risk of: Nose bleeding, chronic bronchitis

**Skin Contact**
Irritation
Risk of: Burn

**Eye Contact**
Severe eye irritation
Risk of serious damage to eyes
Symptoms: Redness, Lachrymation, swelling of tissue

**Ingestion**
Severe irritation
Symptoms: Nausea, Abdominal pain, Vomiting, Diarrhoea,
Risk of chemical pneumonitis from product inhalation

### 4.3 Indication of immediate medical attention and special treatment needed
Consult with an ophthalmologist immediately in all cases
If accidentally swallowed obtain immediate medical attention
When symptoms persist or in all cases of doubt, seek medical attention

## 5. SECTION 5: FIRE-FIGHTING MEASURES

### 5.1 Extinguishing Media

**Suitable Extinguishing Media**
Use water spray. Fire water contaminated with this material must be contained and prevented of discharge to any waterway, sewer or drain.

**Unsuitable Extinguishing Media**
None known

### 5.2 Special hazards arising from the substance or mixture
Has a fire-promoting effect due to release of oxygen.
Hazards of over-pressurisation in containers exposed to heat: explosion risk.
Contact with combustible material may cause fire

### 5.3 Advice for fire-fighters
Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA).
Wear chemical resistant oversuit
Cool containers/tanks with water spray
Prevent fire extinguishing water from contaminating surface
water of the ground water system

6. SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Advice for non-emergency personnel
Avoid contact with spilled material. Prevent further leakage or spillage if safe to do so

Advice for emergency responders
Wear suitable protective equipment. Refer to section 5 for fire-fighting; section 4 for first-aid advice; and section 8 for minimum requirements for personal protective equipment. Evacuate personnel to safe areas. Keep people away from and up wind of spill/leak

6.2 Environmental precautions
Do not allow to enter drains, sewers or watercourses. Should not be released into the environment

6.3 Methods and material for containment and cleaning up
Dam up
Do not mix waste streams during collection
Soak up with inert absorbant material
Keep in suitable, closed containers for disposal
Never return spills in original containers for re-use

6.4 Reference to other sections
Section 1 for emergency contact. Section 8 for information on appropriate personal protective equipment.

6.5 Additional Information
None

7. SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling
Avoid ingestion, inhalation and contact with skin and eyes
Use only with adequate ventilation.
Keep away from heat and sources of ignition.
Keep container tightly closed.
Wear protective gloves/clothing and eye/face protection.
Use only clean and dry utensils

7.2 Conditions for safe storage, including any incompatibilities
Storage Temperature
Store between 4°C to 25°C
Protect from light.
Keep only in original container
Keep away from combustible materials and sources of ignition and heat.
Store in a receptacle equipped with a vent
Keep container closed
Regularly check the conditions and temperature of the containers.
Incompatible materials

- Strong acids, strong alkali, strong oxidising agents, strong reducing agents, organic material, acetone and metals.

Suitable material

- Aluminium 99.5%
- Stainless steel 304L/316L
- Approved grades of HDPE

7.3 Specific end use(s)

Apart from the use mentioned in Section 1.2 no other specific uses are stipulated. For further information please contact supplier.

8. SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

8.1.1 Exposure Limit Values

**Hydrogen Peroxide**

- **UK. EH40 Workplace Exposure Limits (WELs) 2007**
  - Time weighted average = 1ppm
  - Time weighted average = 1.4 mg/m³

- **UK.EH40 Workplace Exposure Limits (WELs) 2007**
  - Short term exposure limit = 2ppm
  - Short term exposure limit = 2.8 mg/m³

- **US. ACGIH Threshold Limit Values 2009**
  - Time weighted average = 1ppm

8.1.2 Other information on limit values

Predicted No Effect Concentration

- Fresh water, 0.13 mg/l
- Marine water, 0.013 mg/l
- Sewage treatment plants, 4.7 mg/l

Derived No Effect Level/Derived minimal effect level

- Workers, inhalation, acute exposure, 3 mg/m³, local effects
- Workers, inhalation, chronic exposure, 1.4 mg/m³, local effects
- Consumers, inhalation, acute exposure, 1.93 mg/m³, local effects
- Consumers, inhalation, chronic exposure, 0.21 mg/m³, local effects

<table>
<thead>
<tr>
<th>SUBSTANCE.</th>
<th>CAS No.</th>
<th>LTEL (8 hr TWA ppm)</th>
<th>LTEL (8 hr TWA mg/m³)</th>
<th>STEL (ppm)</th>
<th>STEL (mg/m³)</th>
<th>Note:</th>
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<tbody>
<tr>
<td>Hydrogen Peroxide ≥35% - ≤50%</td>
<td>7722-84-1</td>
<td>1</td>
<td>1.4</td>
<td>2</td>
<td>2.8</td>
<td>EH 40</td>
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</tbody>
</table>

8.2 Exposure controls

8.2.1 Appropriate engineering controls

Ensure adequate ventilation
Apply technical measures to comply with the occupational exposure limits

8.2.2 Personal protection equipment

Eye/face protection

Wear chemical safety glasses with side shields, or splash-proof goggles
Skin protection (Hand protection/ Other)

Impervious gloves

Suitable material: PVC, natural rubber, butyl-rubber, nitrile rubber

Any specific glove information provided is based on published literature and glove-manufacturer data. Contact the glove manufacturer for glove selection and breakthrough times for your use conditions.

Inspect and replace worn or damaged gloves.

Chemical resistant gloves are recommended.

If contact with forearms is likely, wear gauntlet–style gloves.

Nitrile, CEN standards EN 420 and EN 374 provide general requirements and list of glove types.

Respiratory protection

If engineering controls do not maintain airborne contaminant concentrations at a level which is adequate to protect worker health, an approved respirator may be appropriate.

Respirator selection, use, and maintenance must be in accordance with regulatory requirements. Types of respirator to be considered for this mixture include: Half-face filter respirator; Type A filter material CEN standards EN136, EN140 and EN 405 provide respirator masks and EN 149 and EN 143 provide filter recommendations

Eye wash bottles or eye wash stations in compliance with applicable standards

Take off contaminated clothing and shoes immediately

Wash contaminated clothing before re-use

When using do not eat, drink or smoke

Wash hands before breaks and at the end of workday

Handle in accordance with good industrial hygiene and safety practice.

Hygiene Measures

8.2.3 Environmental Exposure Controls

Dispose of rinse water in accordance with local and national regulations

See sections 6,7,12,13

9. SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Liquid</td>
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<tr>
<td>Colour</td>
<td>Colourless</td>
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<tr>
<td>Odour</td>
<td>Pungent</td>
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<tr>
<td>Molecular weight</td>
<td>34 g/mol</td>
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<tr>
<td>pH (Value)</td>
<td>2.02 (H2O2 50%)</td>
</tr>
<tr>
<td>Melting Point (°C) / Freezing Point (°C)</td>
<td>-33°C (H2O2 35%)</td>
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<tr>
<td>Boiling point/boiling range (°C):</td>
<td>108°C (H2O2 35%)</td>
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<tr>
<td>Flash Point (°C)</td>
<td>Not applicable</td>
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<tr>
<td>Evaporation rate</td>
<td>No data available</td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>Not applicable</td>
</tr>
</tbody>
</table>
Explosive limit ranges. No data available
Vapour Pressure (mm Hg) 1 mbar (H2O2 50%) at 30°C
Vapour Density (Air=1) 1
Density (g/ml) 1.1 - 1.2
Solubility (Water) Miscible with water
Solubility (Other) No data available
Partition Coefficient (n-Octanol/water) Log Pow: -1.57, Method: calculated value
Auto Ignition Temperature (°C) Not flammable
Decomposition Temperature (°C) >60°C, Self-accelerating decomposition temperature (SADT)
<60°C, Slow composition
Viscosity (mPa.s) 1.17 mPa.s (H2O2 50%), at 20°C
Explosive properties Not explosive
Oxidising properties Mixture classified as oxidising with sub-category 2

9.2 Other information Surface tension – 75.6 mN/m (H2O2 50%) at 20°C

10. SECTION 10: STABILITY AND REACTIVITY
10.1 Reactivity Stable under normal conditions of use
Decomposes on heating
Potential for exothermic hazard
10.2 Chemical stability Stable under recommended storage conditions
Sensitive to heat and light.
10.3 Possibility of hazardous reactions Contact with combustible material may cause fire
Contact with flammables may cause fire or explosions
Risk of explosion if heated under confinement
Fire or intense heat may cause violent rupture of packages
10.4 Conditions to avoid Protect from freezing
Contamination
To avoid thermal decomposition, do not overheat
10.5 Incompatible materials Acids, bases, metals, Heavy metal salts, powdered metal salts, reducing agents, organic materials, flammable materials
10.6 Hazardous Decomposition Product(s) Oxygen

11. SECTION 11: TOXICOLOGICAL INFORMATION
11.1 Information on toxicological effects
11.1.2 Mixtures
Acute toxicity
Acute oral toxicity: LD50, Rat: 1,270 mg/kg (H2O2 35%)
Acute inhalation toxicity: LC50 4h, rat, >0.17 mg/l, vapour (H2O2 50%)
Acute dermal toxicity
LD50, Rabbit, >2,000 mg/kg (H2O2 35%)
Skin corrosion/Irritation
Rabbit: skin irritation (H2O2 35%) Irritating to skin. Effects may include: discolouration, Erythema, Odema.
Serious eye damage/eye irritation
Rabbit, Severe eye irritation (H2O2 10%)
Corrosivity
Corrosive to eyes. May cause irreversible eye damage.
Sensitisation

Guinea pig, did not cause sensitization on laboratory animals

Repeated dose toxicity

Oral, 90-day, mouse, Gastrointestinal tract, 300 ppm LOAEL
Oral, 90-day, mouse, 100 ppm NOAEL
Inhalation, 28-day rat, respiratory system, 10ppm, LOAEL, vapour
Inhalation, 28-day, rat 2ppm, NOAEL, Vapour

Carcinogenicity

Oral, Prolonged exposure, mouse, Target organs: Duodenum, carcinogenic effects
Dermal, prolonged exposure, mouse, animal testing did not show any carcinogenic effects

Mutagenicity

In vitro tests have shown mutagenic effects
In vivo tests did not show mutagenic effects

Toxicity for reproduction

Substance is totally biotransformed (metabolized)
Study scientifically unjustified

Specific target organ toxicity – single exposure

Inhalation, mice, 665 mg/m3, Remarks: RD 50, Irritating to respiratory system, H2O2 50%

11.2 Other information

None

12. SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity

- LC50, 96hours, Pimephales promelas (fathead minnows): 16.4 mg/L
- NOEC 96hours, Pimephales promelas 4.3mg/l
- Crustaceans, Daphnia pulex, EC50, 48 h, 2.4 mg/l, fresh water, semi static test
- Crustaceans, Daphnia pulex NOEC, 48 h, 1mg/l, fresh water, semi-static test
- Algae, skeletonema costatum, EC50, growth rate, 72h, 2.6 mg/l
- Algae, skeletonema costatim, NOEC, 72h, 0.63 mg/l
- EC 50, 48 hours, Daphnia pulex (water flea): 2.4mg/L
- Algae, chlorella vulgaris, NOEC, 72h, 0.1 mg/l

12.2 Persistence and degradability

Abiotic Degradation

Air, indirect photo oxidation, t 1/2 24h
Conditions: sensitizer: OH radicals
Water, redox reaction, t 1/2, 120h Conditions: mineral and enzymatic catalysis, fresh water, salt water
Soil, redox reaction, t 1/2 12h. Conditions: mineral and enzymatic catalysis

Biodegradation

Aerobic, t 1/2 < 2 min
Conditions: biological treatment sludge
Readily biodegradable

Aerobic t 1/2 from 0.3 – 5 d
12.3 Bioaccumulative potential

Bioaccumulative potential: Log Pow -1.57
Result – does not bioaccumulate

12.4 Mobility in soil

Water

Considerable solubility and mobility

Soil/sediments

Log KOC: 0.2, non significant evaporation and adsorption

Air

Volatility, Henry's law constant (H), = 0.75 kPa.m³/mol
Conditions 20°C
Not significant

12.5 Results of PBT and VPvB assessment

This substance is not considered to be persistent, bioaccumulating nor toxic (PBT)
This substance is not considered to be very persistent nor very bioaccumulating (vPvB)

12.6 Other adverse effects

No data available

13. SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Handle in accordance with good industrial hygiene and safety practice. Refer to protective measures listed in sections 7 and 8. Empty containers retain residue (liquid and/or vapour) and can be dangerous. Do not burn, or use a cutting torch on, the empty drum.
Dispose of in accordance with the European Directives on waste and hazardous waste. Waste must be classified and labelled prior to recycling or disposal. According to the European Waste Catalogue, Waste Codes are not product specific, but application specific. Waste codes should be assigned by the user based on the application for which the product was used.

13.2 Additional Information

None
14. SECTION 14: TRANSPORT INFORMATION

14.1 Land transport (ADR/RID)
- UN number: UN 2014
- Proper Shipping Name: HYDROGEN PEROXIDE, AQUEOUS SOLUTION
- Transport hazard class(es): 5.1
- ADR/RID-Labels: 5.1 – Oxidizing substances, 8 - Corrosive
- Packing Group: II

Environmental hazards: None
Special precautions for user: None

14.2 Sea transport (IMDG)
- UN number: UN 2014
- Proper Shipping Name: HYDROGEN PEROXIDE, AQUEOUS SOLUTION
- Transport hazard class(es): 5.1
- IMDG Labels: 5.1 – Oxidizing substances, 8 - Corrosive
- Marine Pollutant: No
- Special precautions for user: None

14.3 Air transport (ICAO/IATA)
- UN number: UN 2014
- Proper Shipping Name: HYDROGEN PEROXIDE, AQUEOUS SOLUTION
- Transport hazard class(es): 5.1
- ICAO labels: 5.1 – Oxidizing substance, 8 – corrosive
- Packing Group: II
- Environmental hazards: None
- Special precautions for user: None

14.4 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code
- Not applicable

15. SECTION 15: REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
- 1907/2006 – REACH
- 1272/2008 – CLP
- 67/548/EEC – DSD
- 199/45/EC – DPD
- 98/8/EC – BPD

15.1.1 EU regulations
- Authorisations and/or restrictions on use
  - Refer to EU regulation for details of any actions or restrictions by the above regulations or directives
15.1.2 National regulations

Refer to national regulation for details of any actions or restrictions by the above regulations or directives

<table>
<thead>
<tr>
<th>Inventory Information</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>Toxic Substance Control Act List (TSCA)</td>
<td>In compliance with inventory</td>
</tr>
<tr>
<td>Australian Inventory of Chemical Substances (AICS)</td>
<td>In compliance with inventory</td>
</tr>
<tr>
<td>Canadian Domestic Substances List (DSL)</td>
<td>In compliance with inventory</td>
</tr>
<tr>
<td>Korean Existing Chemicals Industry (KECI(KR))</td>
<td>In compliance with inventory</td>
</tr>
<tr>
<td>EU list of existing chemical substances (EINECS)</td>
<td>In compliance with inventory</td>
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<tr>
<td>Japanese Existing and New Chemical Substances (MITI List) (ENCS)</td>
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<td>Inventory of Existing Chemical Substances (China) (IECS)</td>
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<tr>
<td>New Zealand Inventory of Chemicals</td>
<td>In compliance with inventory</td>
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</table>

15.2 Chemical Safety Assessment

A Chemical Safety Assessment has been carried out for this mixture (hydrogen peroxide)

16. SECTION 16: OTHER INFORMATION

The following sections contain revisions or new statements: 1-16.

LEGEND

<table>
<thead>
<tr>
<th>LTEL</th>
<th>STEL</th>
<th>STOT</th>
<th>DNEL</th>
<th>PNEL</th>
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</thead>
<tbody>
<tr>
<td>Long Term Exposure Limit</td>
<td>Short Term Exposure Limit</td>
<td>Specific Target Organ Toxicity</td>
<td>Derived No Effect Level</td>
<td>Predicted No Effect Concentration</td>
</tr>
</tbody>
</table>

References: Sources of information used in preparing this SDS included one or more of the following: results from in-house or supplier toxicology studies; publications from trade associations; ECHA publications; EU guidelines and other sources as appropriate

Risk Phrases and Safety Phrases

R5: Heating may cause an explosion.
R8: Contact with combustible material may cause fire.
R20/22: Harmful by inhalation and if swallowed.
R35: Causes severe burns.
R37/38: Irritating to respiratory system and skin.
R41: Risk of serious damage to eyes.
S1/2 - Keep locked up and out of reach of children
S17 – keep away from combustible material
S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S27/28: After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of water.
S36/37/39: Wear suitable protective clothing, gloves and eye/face protection.
S45: In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
Hazard statement(s) and Precautionary statement(s)

H302: Harmful if swallowed.
H315: Causes skin irritation.
H318: Causes serious eye damage.
H332: Harmful if inhaled
H335: May cause respiratory irritation.
P220: Keep/store away from clothing/combustible materials
P261: Avoid breathing gas/mist/vapours/spray
P270: Do not eat, drink or smoke when using this product
P280: Wear protective gloves/protective clothing/eye protection/face protection.
P310: Immediately call a POISON CENTRE or doctor/physician if you feel unwell
P303 + P361 + P353: IF ON SKIN (or hair) Remove/take off immediately all contaminated clothing. Rinse skin with water/shower.
P305 + P351 + P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Training advice: All users should be trained

Additional Information: None

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