## Section: 1. PRODUCT AND COMPANY IDENTIFICATION

<table>
<thead>
<tr>
<th>Product name</th>
<th>OXONIA ACTIVE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Other means of identification</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>Recommended use</td>
<td>Sanitizer</td>
</tr>
<tr>
<td>Product dilution information</td>
<td>0.2 % - 2.0 %</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Company</th>
<th>Ecolab New Zealand</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>2 Daniel Place</td>
</tr>
<tr>
<td></td>
<td>Te Rapa, Hamilton New Zealand</td>
</tr>
<tr>
<td></td>
<td>+64 7 958 2319</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Emergency telephone number</th>
<th>0800 243 622 (0800 CHEMCALL)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>+64 7 958 2372 (International)</td>
</tr>
</tbody>
</table>

| Issuing date          | 19.11.2019 |

## Section: 2. HAZARDS IDENTIFICATION

### HSNO Hazard classification

**Product AS SOLD**

- **Oxidizing liquids or solids**: 5.1.1 C
- **Corrosive to Metals**: 8.1 A
- **Acute toxicity (Oral)**: 6.1 D
- **Acute toxicity (Inhalation)**: 6.1 E
- **Skin corrosion**: 8.2 B
- **Serious eye damage**: 8.3 A
- **Acute toxicity**: 6.1 E (Respiratory system)
- **Aquatic toxicity (Acute or Chronic)**: 9.1 D
- **Ecotoxic to terrestrial vertebrates**: 9.3 B

**Product AT USE DILUTION**

Not a hazardous substance or mixture.

### GHS Label element

**Product AS SOLD**

**Hazard pictograms**

- ![Flammable](image)
- ![Corrosive](image)
- ![Inhalation toxic](image)
- ![Ecotoxic](image)

**Signal Word**: Danger

**Hazard Statements**

- May intensify fire; oxidiser.
- May be corrosive to metals.
- Harmful if swallowed.
- Causes severe skin burns and eye damage.
- May be harmful if inhaled.
- May cause respiratory irritation.
- Toxic to aquatic life.
- Toxic to terrestrial vertebrates.
Precautionary Statements

**Prevention:**
Take any precaution to avoid mixing with combustibles. Wash skin thoroughly after handling. Keep away from heat. Keep/Store away from clothing and other combustible materials. Keep only in original container. Do not breathe dust/fume/gas/mist/vapours/spray. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area. Avoid release to the environment. Wear protective gloves/ protective clothing/ eye protection/ face protection.

**Response:**
In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction. IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. 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. Specific treatment (see supplemental first aid instructions on this label). Wash contaminated clothing before reuse. Absorb spillage to prevent material damage. Collect spillage.

**Storage:**
Store in a well-ventilated place. Keep container tightly closed. Store locked up. Store in corrosive resistant container with a resistant inner liner.

**Disposal:**
Dispose of contents/ container to an approved waste disposal plant.

### Product AT USE DILUTION

**Precautionary Statements**

**Prevention:**
Wash hands thoroughly after handling.

**Response:**
Get medical advice/ attention if you feel unwell.

**Storage:**
Store in accordance with local regulations.

### Product AS SOLD

**Other hazards**

Do not mix with bleach or other chlorinated products – will cause chlorine gas.

### Section: 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### Product AS SOLD

**Pure substance/mixture:** Mixture

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS-No.</th>
<th>Concentration: (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hydrogen peroxide</td>
<td>7722-84-1</td>
<td>10 - 30</td>
</tr>
<tr>
<td>Acetic acid</td>
<td>64-19-7</td>
<td>5 - 10</td>
</tr>
<tr>
<td>Peracetic acid</td>
<td>79-21-0</td>
<td>1 - 5</td>
</tr>
</tbody>
</table>

### Section: 4. FIRST AID MEASURES

#### Product AS SOLD

In case of eye contact: Rinse immediately with plenty of water, also under the eyelids, for at
SAFETY DATA SHEET

OXONIA ACTIVE

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. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention immediately.

If swallowed: Rinse mouth with water. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Get medical attention immediately.

If inhaled: Remove to fresh air. Treat symptomatically. 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.

Product AT USE DILUTION

In case of eye contact: Rinse with plenty of water.
In case of skin contact: Rinse with plenty of water.
If swallowed: Rinse mouth. Get medical attention if symptoms occur.
If inhaled: Get medical attention if symptoms occur.

Section: 5. FIREFIGHTING MEASURES

Product AS SOLD

Suitable extinguishing media: Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable extinguishing media: None known.

Specific hazards during firefighting: Special protective equipment for firefighters
Oxidizer. Contact with other material may cause fire. Oxidizer; material is an oxidizer which may readily react with other materials, especially upon heating. Exposure to decomposition products may be a hazard to health.

Hazardous combustion products: Decomposition products may include the following materials:
Carbon oxides

Special protective equipment for firefighters: In case of fire, wear a full face positive-pressure self contained breathing apparatus and protective suit.

Specific extinguishing methods: Collect contaminated fire extinguishing water separately. This must not be discharged into drains. 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

**Product AS SOLD**

<table>
<thead>
<tr>
<th>Personal precautions, protective equipment and emergency procedures</th>
<th>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.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Environmental precautions</td>
<td>Do not allow contact with soil, surface or ground water.</td>
</tr>
<tr>
<td>Methods and materials for containment and cleaning up</td>
<td>Stop leak if safe to do so. Isolate the waste do not allow it to come into contact with incompatible materials. For small spills contain with sand or vermiculite and dilute the contained product at least 10 times with water. Transfer to an open topped container and remove to a safe place for neutralization&quot; / disposal. For large spills contain spill and evacuate the area, leave until the reaction subsides, then collect up for disposal. Obtain consent from the local water company / authority if considering discharge to sewer. *NEUTRALIZATION : once diluted, neutralize with a suitable alkali such as sodium bicarbonate. Combustible materials exposed to this product should be rinsed immediately with large amounts of water to ensure that all product is removed. Residual product which is allowed to dry on organic materials such as rags, cloths, paper, fabrics, cotton, leather, wood, or other combustibles may spontaneously ignite and result in a fire.</td>
</tr>
</tbody>
</table>

**Product AT USE DILUTION**

<table>
<thead>
<tr>
<th>Personal precautions, protective equipment and emergency procedures</th>
<th>Refer to protective measures listed in sections 7 and 8.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Environmental precautions</td>
<td>No special environmental precautions required.</td>
</tr>
<tr>
<td>Methods and materials for containment and cleaning up</td>
<td>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.</td>
</tr>
</tbody>
</table>

Section: 7. HANDLING AND STORAGE

**Product AS SOLD**

<table>
<thead>
<tr>
<th>Advice on safe handling</th>
<th>Do not ingest. 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. Do not mix with bleach or other chlorinated products – will cause chlorine gas. In case of mechanical malfunction, or if in contact with unknown dilution of product, wear full Personal Protective Equipment (PPE).</th>
</tr>
</thead>
<tbody>
<tr>
<td>Conditions for safe storage</td>
<td>Keep in a cool, well-ventilated place. Keep away from reducing agents. Keep away from combustible material. Keep out of reach of children. Keep container tightly closed. Store in suitable labeled containers. Pressure bursts may occur due to gas evolution if the</td>
</tr>
</tbody>
</table>
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OXONIA ACTIVE

container is not adequately vented.

Storage temperature : 5 °C to 40 °C

Product AT USE DILUTION
Advice on safe handling : Wash hands after handling. In case of mechanical malfunction, or if in contact with unknown dilution of product, wear full Personal Protective Equipment (PPE). For personal protection see section 8.


Section: 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Product AS SOLD
Components with workplace control parameters

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS-No.</th>
<th>Form of exposure</th>
<th>Permissible concentration</th>
<th>Basis</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hydrogen peroxide</td>
<td>7722-84-1</td>
<td>WES-TWA</td>
<td>1 ppm 1.4 mg/m3</td>
<td>NZ OEL</td>
</tr>
<tr>
<td>Acetic acid</td>
<td>64-19-7</td>
<td>WES-TWA</td>
<td>10 ppm 25 mg/m3</td>
<td>NZ OEL</td>
</tr>
<tr>
<td></td>
<td></td>
<td>WES-STEEL</td>
<td>15 ppm 37 mg/m3</td>
<td>NZ OEL</td>
</tr>
</tbody>
</table>

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
                : Unsupported neoprene
                : PVC
                : Natural rubber
                : Neoprene/natural rubber blend
                : Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough.

Skin protection : Personal protective equipment comprising: suitable protective gloves, safety goggles and protective clothing

Respiratory protection : When workers are facing concentrations above the exposure limit they must use appropriate certified respirators. Refer to AS/NZS 1715 and AS/NZS 1716 for selection, use and maintenance of respiratory protective equipment as applicable.

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.
### Engineering measures
Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

### Personal protective equipment

<table>
<thead>
<tr>
<th>Protection</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Eye protection</td>
<td>No special protective equipment required.</td>
</tr>
<tr>
<td>Hand protection</td>
<td>No special protective equipment required.</td>
</tr>
<tr>
<td>Skin protection</td>
<td>No special protective equipment required.</td>
</tr>
<tr>
<td>Respiratory protection</td>
<td>Refer to AS/NZS 1715 and AS/NZS 1716 for selection, use and maintenance of respiratory protective equipment as applicable.</td>
</tr>
</tbody>
</table>

### Section: 9. PHYSICAL AND CHEMICAL PROPERTIES

<table>
<thead>
<tr>
<th>Property</th>
<th>Product AS SOLD</th>
<th>Product AT USE DILUTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>liquid</td>
<td>liquid</td>
</tr>
<tr>
<td>Colour</td>
<td>colourless</td>
<td>colourless</td>
</tr>
<tr>
<td>Odour</td>
<td>pungent</td>
<td>vinegar-like</td>
</tr>
<tr>
<td>pH</td>
<td>1.0, (100 %)</td>
<td>3.0 - 4.0</td>
</tr>
<tr>
<td>Flash point</td>
<td>Not applicable., Sustains combustion</td>
<td></td>
</tr>
<tr>
<td>Odour Threshold</td>
<td>no data available</td>
<td></td>
</tr>
<tr>
<td>Melting point/freezing point</td>
<td>no data available</td>
<td></td>
</tr>
<tr>
<td>Initial boiling point and boiling range</td>
<td>&gt; 100 °C</td>
<td></td>
</tr>
<tr>
<td>Evaporation rate</td>
<td>no data available</td>
<td></td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>Not applicable.</td>
<td></td>
</tr>
<tr>
<td>Upper explosion limit</td>
<td>no data available</td>
<td></td>
</tr>
<tr>
<td>Lower explosion limit</td>
<td>no data available</td>
<td></td>
</tr>
<tr>
<td>Vapour pressure</td>
<td>no data available</td>
<td></td>
</tr>
<tr>
<td>Relative vapour density</td>
<td>no data available</td>
<td></td>
</tr>
<tr>
<td>Relative density</td>
<td>1.113 - 1.133</td>
<td></td>
</tr>
<tr>
<td>Water solubility</td>
<td>soluble</td>
<td></td>
</tr>
<tr>
<td>Solubility in other solvents</td>
<td>no data available</td>
<td></td>
</tr>
<tr>
<td>Partition coefficient: n-octanol/water</td>
<td>no data available</td>
<td></td>
</tr>
<tr>
<td>Auto-ignition temperature</td>
<td>no data available</td>
<td></td>
</tr>
<tr>
<td>Thermal decomposition</td>
<td>no data available</td>
<td></td>
</tr>
<tr>
<td>Viscosity, kinematic</td>
<td>no data available</td>
<td></td>
</tr>
<tr>
<td>Explosive properties</td>
<td>no data available</td>
<td></td>
</tr>
<tr>
<td>Oxidizing properties</td>
<td>no data available</td>
<td></td>
</tr>
<tr>
<td>Molecular weight</td>
<td>no data available</td>
<td></td>
</tr>
<tr>
<td>VOC</td>
<td>no data available</td>
<td></td>
</tr>
</tbody>
</table>
Section: 10. STABILITY AND REACTIVITY

Product AS SOLD
Reactivity: No dangerous reaction known under conditions of normal use.
Chemical stability: pressure build-up
Contamination may result in dangerous pressure increases - closed containers may rupture.
Possibility of hazardous reactions: Do not mix with bleach or other chlorinated products – will cause chlorine gas.
Conditions to avoid: Direct sources of heat.
Exposure to sunlight.
Incompatible materials: Metals
Bases
Organic materials
Hazardous decomposition products: In case of fire hazardous decomposition products may be produced such as:
Carbon oxides

Section: 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure: Inhalation, Eye contact, Skin contact

Potential Health Effects

Product AS SOLD
Eyes: Causes serious eye damage.
Skin: Causes severe skin burns.
Ingestion: Harmful if swallowed. Causes digestive tract burns.
Inhalation: May cause respiratory tract irritation. May cause nose, throat, and lung irritation. May be harmful if inhaled.
Chronic Exposure: Health injuries are not known or expected under normal use.

Product AT USE DILUTION
Eyes: Health injuries are not known or expected under normal use.
Skin: Health injuries are not known or expected under normal use.
Ingestion: Health injuries are not known or expected under normal use.
Inhalation: Health injuries are not known or expected under normal use.
Chronic Exposure: Health injuries are not known or expected under normal use.

Experience with human exposure

Product AS SOLD
Eye contact: Redness, Pain, Corrosion
Skin contact: Redness, Pain, Corrosion
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Ingestion: Corrosion, Abdominal pain, Vomiting
Inhalation: Respiratory irritation, Cough

<table>
<thead>
<tr>
<th>Product AT USE DILUTION</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Eye contact</td>
<td>No symptoms known or expected.</td>
</tr>
<tr>
<td>Skin contact</td>
<td>No symptoms known or expected.</td>
</tr>
<tr>
<td>Ingestion</td>
<td>No symptoms known or expected.</td>
</tr>
<tr>
<td>Inhalation</td>
<td>No symptoms known or expected.</td>
</tr>
</tbody>
</table>

Toxicity

Product AS SOLD

**Product**

Acute oral toxicity: Acute toxicity estimate: 103.37 mg/kg
Acute inhalation toxicity: 4 h Acute toxicity estimate: 1.06 mg/l
Test atmosphere: dust/mist
Acute dermal toxicity: Acute toxicity estimate: > 5,000 mg/kg
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

**Product AS SOLD**

**Ecotoxicity**

Environmental Effects: Toxic to aquatic life. Toxic to terrestrial vertebrates.

**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:
96 h LC50 Oncorhynchus mykiss (rainbow trout): > 1,000 mg/l
Peracetic acid  
96 h LC50: 0.8 mg/l

**Components**

Toxicity to daphnia and other aquatic invertebrates  
: Acetic acid  
48 h EC50 Daphnia magna (Water flea): 39.6 mg/l

Peracetic acid  
48 h EC50: 0.73 mg/l

**Components**

Toxicity to algae  
: Hydrogen peroxide  
72 h EC50: 1.38 mg/l

Acetic acid  
72 h EC50 Skeletonema costatum (marine diatom): > 1,000 mg/l

Peracetic acid  
72 h EC50: 0.7 mg/l

**Persistence and degradability**

**Product AS SOLD**

Readily biodegradable.

**Bioaccumulative potential**

no data available

**Mobility in soil**

no data available

**Other adverse effects**

no data available

**Section: 13. DISPOSAL CONSIDERATIONS**

**Product AS SOLD**

Disposal methods  
The product should not be allowed to enter drains, water courses or the soil. 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 reuse empty containers. Dispose of in accordance with local, state, and federal regulations.

**Product AT USE DILUTION**

Disposal methods  
Diluted product can be flushed to sanitary sewer.

Disposal considerations  
Dispose of in accordance with local, state, and federal regulations.

**Section: 14. TRANSPORT INFORMATION**

**Product AS SOLD**
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 (NZ_DG)

UN number: 3149  
Description of the goods: HYDROGEN PEROXIDE AND PEROXYACETIC ACID MIXTURE STABILIZED  
Class: 5.1 (8)  
Packing group: II  
Hazchem Code: 2P  
Environmentally hazardous: Yes

### Air transport (IATA)

Contact Regulatory for air freight eligibility

### Sea transport (IMDG/IMO)

UN number: 3149  
Description of the goods: HYDROGEN PEROXIDE AND PEROXYACETIC ACID MIXTURE, STABILIZED  
Class: 5.1 (8)  
Packing group: II  
Marine pollutant: No  
Special precautions for user: None

### Section: 15. REGULATORY INFORMATION

#### Product AS SOLD

HSNO Approval Number: HSR002591  

The components 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. Industrial Chemical (Notification and Assessment) Act**: On the inventory, or in compliance with the inventory
- **New Zealand. Inventory of Chemicals (NZIoC), as published by ERMA New Zealand**: On the inventory, or in compliance with the inventory
- **Japan. ENCS - Existing and New Chemical Substances Inventory**: On the inventory, or in compliance with the inventory
- **Korea. Korean Existing Chemicals Inventory (KECI)**:
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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:**
On the inventory, or in compliance with the inventory

### Section: 16. OTHER INFORMATION

<table>
<thead>
<tr>
<th>Issuing date</th>
<th>19.11.2019</th>
</tr>
</thead>
<tbody>
<tr>
<td>Version</td>
<td>1.5</td>
</tr>
<tr>
<td>Prepared by</td>
<td>Regulatory Affairs</td>
</tr>
</tbody>
</table>

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.