

Section: 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : OXONIA ACTIVE

Other means of identification : Not applicable.

Recommended use : Sanitizer

Restrictions on use : Reserved for industrial and professional use.

Product dilution information : 0.2 % - 5.0 %

Company : Ecolab Co.
5105 Tomken Road
Mississauga, Ontario Canada L4W 2X5
1-800-352-5326

Emergency health information : 1-800-328-0026 (US/Canada), 1-651-222-5352 (outside US)

Issuing date : 05/08/2017

Section: 2. HAZARDS IDENTIFICATION
GHS Classification
Product AS SOLD

Oxidizing liquids : Category 3

Organic peroxides : Type F

Acute toxicity (Oral) : Category 4

Skin corrosion : Category 1A

Serious eye damage : Category 1

Specific target organ toxicity - single exposure : Category 3 (Respiratory system)

Product AT USE DILUTION

Acute toxicity (Oral) : Category 4

GHS Label element
Product AS SOLD

Hazard pictograms :



Signal Word : Danger

Hazard Statements : Heating may cause a fire.
May intensify fire; oxidiser.
Harmful if swallowed.
Causes severe skin burns and eye damage.
May cause respiratory irritation.

Precautionary Statements : **Prevention:**
Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Keep away from clothing and other combustible materials. Keep only in original packaging. Ground and

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bond container and receiving equipment. Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray. Wash skin thoroughly after handling. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area. Wear protective gloves/ protective clothing/ eye protection/ face protection.

Response:

IF SWALLOWED: Call a POISON CENTER or doctor/ physician if you feel unwell. Rinse mouth. IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/doctor. 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.

Wash contaminated clothing before reuse. In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.

Storage:

Store in a well-ventilated place. Store in a well-ventilated place. Keep container tightly closed. Store locked up. Protect from sunlight. Store separately.

Disposal:

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

Product AT USE DILUTION

Hazard pictograms

:



Signal Word

: Warning

Hazard Statements

: Harmful if swallowed.

Precautionary Statements

: **Prevention:**

Wash skin thoroughly after handling. Do not eat, drink or smoke when using this product.

Response:

IF SWALLOWED: Call a POISON CENTER or doctor/ physician if you feel unwell. Rinse mouth.

Disposal:

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

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

Chemical Name

Hydrogen peroxide

Acetic acid

Peroxyacetic acid

CAS-No.

7722-84-1

64-19-7

79-21-0

Concentration: (%)

10 - 30

5 - 10

5 - 10

Product AT USE DILUTION

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No hazardous ingredients

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 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.
- Hazardous combustion products : Decomposition products may include the following materials:
Carbon oxides
nitrogen oxides (NOx)
Sulphur oxides
Oxides of phosphorus

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- 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 : 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.
- Risk of explosion. : Not available.

Section: 6. ACCIDENTAL RELEASE MEASURES

Product AS SOLD

- 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.
- 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. Never soak up spilled or leaked acids and bases with sawdust, wood chips or similar materials. 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* / 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.

Product AT USE DILUTION

- Personal precautions, protective equipment and emergency procedures : Ensure clean-up is conducted by trained personnel only. Refer to protective measures listed in sections 7 and 8.
- 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). For large spills, dike spilled material or otherwise contain material to ensure runoff does not reach a waterway.

Section: 7. HANDLING AND STORAGE

Product AS SOLD

- 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. Do not mix with bleach or other chlorinated products – will cause chlorine gas.
- Conditions for safe storage : Keep in a cool, well-ventilated place. Keep away from reducing agents. Keep away from strong bases. 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

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gas evolution if the container is not adequately vented.

Storage temperature : -10 °C to 40 °C

Product AT USE DILUTION

Advice on safe handling : Do not ingest. Wash hands thoroughly after handling.

Conditions for safe storage : Keep out of reach of children. Store in suitable labeled containers.

Section: 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Product AS SOLD

Components with workplace control parameters

| Components | CAS-No. | Form of exposure | Permissible concentration | Basis |
|-------------------|-----------|------------------|---------------------------|------------|
| Hydrogen peroxide | 7722-84-1 | TWA | 1 ppm 1.4 mg/m3 | CAD AB OEL |
| | | TWA | 1 ppm | CAD BC OEL |
| | | VME | 1 ppm 1.4 mg/m3 | OEL (QUE) |
| Hydrogen peroxide | 7722-84-1 | TWA | 1 ppm | ACGIH |
| | | TWA | 1 ppm 1.4 mg/m3 | NIOSH REL |
| | | TWA | 1 ppm 1.4 mg/m3 | OSHA Z1 |
| Acetic acid | 64-19-7 | TWA | 10 ppm 25 mg/m3 | CAD AB OEL |
| | | STEL | 15 ppm 37 mg/m3 | CAD AB OEL |
| | | TWA | 10 ppm | CAD BC OEL |
| | | STEL | 15 ppm | CAD BC OEL |
| | | VME | 10 ppm 25 mg/m3 | OEL (QUE) |
| | | STEV | 15 ppm 37 mg/m3 | OEL (QUE) |
| Acetic acid | 64-19-7 | TWA | 10 ppm | ACGIH |
| | | STEL | 15 ppm | ACGIH |
| | | STEL | 15 ppm 37 mg/m3 | NIOSH REL |
| | | TWA | 10 ppm 25 mg/m3 | NIOSH REL |
| | | TWA | 10 ppm 25 mg/m3 | OSHA Z1 |
| Peroxyacetic acid | 79-21-0 | STEL | 0.4 ppm | ACGIH |

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 : Wear the following personal protective equipment:
Standard glove type.
Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough.

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|------------------------|--|
| 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. |
| 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. |

Product AT USE DILUTION

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

Personal protective equipment

| | |
|------------------------|---|
| Eye protection | : No special protective equipment required. |
| Hand protection | : No special protective equipment required. |
| Skin protection | : No special protective equipment required. |
| Respiratory protection | : No personal respiratory protective equipment normally required. |

Section: 9. PHYSICAL AND CHEMICAL PROPERTIES

| | Product AS SOLD | Product AT USE DILUTION |
|---|---------------------|-------------------------|
| Appearance | : liquid | liquid |
| Colour | : colourless | colourless |
| Odour | : pungent | vinegar-like |
| pH | : 1.0, (100 %) | 2.5 - 3.8 |
| Flash point | : Not applicable. | |
| Odour Threshold | : no data available | |
| Melting point/freezing point | : no data available | |
| Initial boiling point and boiling range | : no data available | |
| Evaporation rate | : no data available | |
| Flammability (solid, gas) | : no data available | |
| 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 - 1.14 | |
| Water solubility | : no data available | |
| Solubility in other solvents | : no data available | |
| Partition coefficient: n-octanol/water | : no data available | |

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| | |
|---------------------------|---------------------|
| Auto-ignition temperature | : no data available |
| Thermal decomposition | : no data available |
| Viscosity, kinematic | : no data available |
| Explosive properties | : no data available |
| Oxidizing properties | : no data available |
| Molecular weight | : no data available |
| VOC | : no data available |

Section: 10. STABILITY AND REACTIVITY

Product AS SOLD

| | |
|------------------------------------|---|
| Chemical stability | : pressure build-up |
| 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 | : Bases Metals Organic materials |
| Hazardous decomposition products | : Decomposition products may include the following materials: Carbon oxides nitrogen oxides (NOx) Sulphur oxides Oxides of phosphorus |

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. |
| 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 | : Harmful if swallowed. |
| Inhalation | : Health injuries are not known or expected under normal use. |

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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
Ingestion : Corrosion, Abdominal pain
Inhalation : Respiratory irritation, Cough

Product AT USE DILUTION

Eye contact : No symptoms known or expected.
Skin contact : No symptoms known or expected.
Ingestion : No information available.
Inhalation : No symptoms known or expected.

Toxicity

Product AS SOLD

Product

Acute oral toxicity : Acute toxicity estimate : 500 mg/kg
Acute inhalation toxicity : 4 h Acute toxicity estimate : 5.06 mg/l
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 : Harmful to aquatic life.

Product

Toxicity to fish : 96 h LC50: 17.8 mg/l

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Toxicity to daphnia and other aquatic invertebrates : no data available

Toxicity to algae : no data available

Components

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

Peroxyacetic 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

Peroxyacetic acid
72 h EC50: 0.7 mg/l

Persistence and degradability

Product AS SOLD

Not applicable - Biocide

Product AS SOLD

Readily biodegradable.

Product AT USE DILUTION

Not applicable - Biocide

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 : 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 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 re-use empty containers. Dispose of in accordance with local, state, and federal regulations.

Product AT USE DILUTION

Disposal methods : Do not contaminate ponds, waterways or ditches with chemical or

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OXONIA ACTIVE

used container. 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 re-use empty containers. 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 (TDG)

UN number : 3109
Description of the goods : ORGANIC PEROXIDE TYPE F, LIQUID
(Peroxyacetic acid)
Class : 5.2 (8)
Packing group : II
Environmentally hazardous : No

Sea transport (IMDG/IMO)

UN number : 3109
Description of the goods : ORGANIC PEROXIDE TYPE F, LIQUID
(Peroxyacetic acid)
Class : 5.2 (8)
Marine pollutant : No

Section: 15. REGULATORY INFORMATION

This product has been classified according to the hazard criteria of the HPR and the SDS contains all of the information required by the HPR.

NPRI Components : Peroxyacetic acid

The components of this product are reported in the following inventories:

United States TSCA Inventory :
On 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

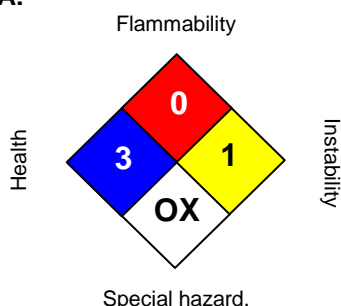
Taiwan Chemical Substance Inventory :

On the inventory, or in compliance with the inventory

Section: 16. OTHER INFORMATION

Product AS SOLD

NFPA:



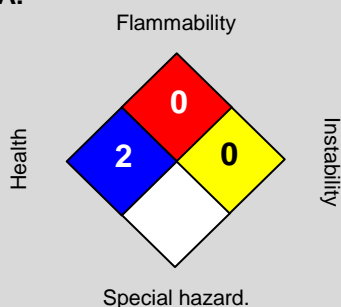
HMIS III:

| | |
|-----------------|---|
| HEALTH | 3 |
| FLAMMABILITY | 0 |
| PHYSICAL HAZARD | 1 |

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

Product AT USE DILUTION

NFPA:



HMIS III:

| | |
|-----------------|---|
| HEALTH | 2 |
| FLAMMABILITY | 0 |
| PHYSICAL HAZARD | 0 |

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

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Version : 1.5
Prepared by : Regulatory Affairs 1-800-352-5326

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.