

### **OCTAVE**

### **SECTION 1. PRODUCT AND COMPANY IDENTIFICATION**

Product name

: OCTAVE

Other means of identification

Not applicable

Recommended use

: Sanitizer

Restrictions on use

Reserved for industrial and professional use.

Product dilution information

No dilution information provided.

Company

Ecolab Inc.

370 N. Wabasha Street

St. Paul. Minnesota USA 55102

1-800-352-5326

Emergency health

information

1-800-328-0026 (US/Canada), 1-651-222-5352 (outside US)

Issuing date

08/28/2015

#### **SECTION 2. HAZARDS IDENTIFICATION**

#### **GHS Classification**

Oxidizing liquids

Acute toxicity (Oral)

Acute toxicity (Inhalation)
Skin corrosion

Serious eye damage

: Category 3

Category 4

Category 4
Category 1A

: Category 1

# **GHS Label element**

Hazard pictograms







Signal Word

Danger

Hazard Statements

May intensify fire; oxidizer.

Harmful if swallowed or if inhaled.

Causes severe skin burns and eye damage.

**Precautionary Statements** 

Prevention:

Keep away from heat. Keep/Store away from clothing/ combustible materials. Take any precaution to avoid mixing with combustibles. Avoid breathing dust/ fume/ gas/ mist/ vapors/ 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/shower. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER or doctor/ physician. IF IN

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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 locked up.

Disposal:

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

Other hazards

: Do not mix with bleach or other chlorinated products - will cause

chlorine gas.

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

Pure substance/mixture : Mixture

Chemical Name	CAS-No.	Concentration (%)
Phosphoric acid	7664-38-2	10 - 30
Hydrogen peroxide	7722-84-1	7.52
Secondary Alkanesulphonates	5324-84-5	1 - 5
Octanoic acid	124-07-2	2.72
phosphonic acid, (1-hydroxyethylidene)bis-	2809-21-4	1 - 5
Peroxyoctanoic acid	33734-57-5	0.94

## **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. 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.

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

and effects, both a delayed

: See Section 11 for more detailed information on health effects and

symptoms.

## **SECTION 5. FIRE-FIGHTING MEASURES**

Suitable extinguishing media

: Use extinguishing measures that are appropriate to local

circumstances and the surrounding environment.

Unsuitable extinguishing

media

: None known.

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Specific hazards during fire

fighting

: Oxidizer. Contact with other material may cause fire.

Hazardous combustion

products

: Decomposition products may include the following materials:

Carbon oxides

Nitrogen oxides (NOx)

Sulfur oxides

Oxides of phosphorus

Special protective equipment

for fire-fighters

: Use personal protective equipment.

Specific extinguishing

methods

Osc personal protective equipment.

: 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.

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**

Advice on safe handling

: Do not ingest. Do not get in eyes, on skin, or on clothing. Do not breathe dust/ fume/ gas/ mist/ vapors/ 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.

Storage temperature

: 5 °C to 40 °C

#### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Ingredients with workplace control parameters

Ingredients	CAS-No.	Form of exposure	Permissible concentration	Basis
Phosphoric acid	7664-38-2	TWA	1 mg/m3	ACGIH
		STEL	3 mg/m3	ACGIH
		TWA	1 mg/m3	NIOSH REL

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		STEL	3 mg/m3	NIOSH REL
		TWA	1 mg/m3	OSHA Z1
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

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.

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.

## **SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

Appearance

: liquid

Color

colorless

Odor

: slight

pН

: 1.0, 100 %

Flash point

: Not applicable

Odor Threshold

No data available

Melting point/freezing point

Initial boiling point and

No data available : No data available

boiling range Evaporation rate

No data available

Flammability (solid, gas)

No data available

Upper explosion limit

: No data available

Lower explosion limit

: No data available

Vapor pressure

No data available

Relative vapor density

: No data available

Relative density

1.215

Water solubility

: No data available

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Solubility in other solvents

: No data available

Partition coefficient: n-

No data available

octanol/water

Autoignition 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**

Chemical stability

: Stable under normal conditions.

Possibility of hazardous

reactions

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

chlorine gas.

Conditions to avoid

None known.

Incompatible materials

: Bases

Metals

Organic materials

Hazardous decomposition

products

Decomposition products may include the following materials:

Carbon oxides

Nitrogen oxides (NOx)

Sulfur oxides

Oxides of phosphorus

## **SECTION 11. TOXICOLOGICAL INFORMATION**

exposure

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

#### **Potential Health Effects**

Eyes

: Causes serious eye damage.

Skin

Causes severe skin burns.

Ingestion

Harmful if swallowed. Causes digestive tract burns.

Inhalation

: 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, Pain, Corrosion

Ingestion

: Corrosion, Abdominal pain

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Inhalation

: Respiratory irritation, Cough

**Toxicity** 

Acute oral toxicity

: Acute toxicity estimate : > 300 mg/kg

Acute inhalation toxicity

: 4 h Acute toxicity estimate : 2.9 mg/l

Acute dermal toxicity

No data available

Skin corrosion/irritation

No data available

Serious eye damage/eye

: No data available

irritation

Respiratory or skin

sensitization

: No data available

Carcinogenicity

Teratogenicity

: No data available

Reproductive effects

: No data available

Germ cell mutagenicity

: No data available

: No data available

STOT-single exposure

: No data available

STOT-repeated exposure

: No data available

Aspiration toxicity

: No data available

Ingredients

Acute dermal toxicity

Phosphoric acid

LD50 Rabbit: > 2,000 mg/kg

Octanoic acid

LD50 Rabbit: > 5,000 mg/kg

phosphonic acid, (1-hydroxyethylidene)bis-

LD50 Rabbit: > 10,000 mg/kg

## **SECTION 12. ECOLOGICAL INFORMATION**

**Ecotoxicity** 

**Environmental Effects** 

Toxic to aquatic life.

**Product** 

Toxicity to fish

: No data available

Toxicity to daphnia and other

aquatic invertebrates

: No data available

Toxicity to algae

: No data available

Ingredients

Toxicity to fish

Phosphoric acid

96 h LC50: 75.1 mg/l

Octanoic acid

96 h LC50 Fish: 22 mg/l

phosphonic acid, (1-hydroxyethylidene)bis-

96 h LC50 Fish: 368 mg/l

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Peroxyoctanoic acid 96 h LC50 Fish: 0.15 mg/l

#### Ingredients

Toxicity to daphnia and other

aquatic invertebrates

: Secondary Alkanesulphonates 48 h EC50 Daphnia: 3,200 mg/l

#### Ingredients

Toxicity to algae

: Hydrogen peroxide 72 h EC50: 1.38 mg/l

## Persistence and degradability

No data available

### Bioaccumulative potential

No data available

### Mobility in soil

No data available

#### Other adverse effects

No data available

# **SECTION 13. DISPOSAL CONSIDERATIONS**

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.

RCRA - Resource

Conservation and Recovery Authorization Act Hazardous waste D002 (Corrosive) D001 (Ignitable)

#### **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 (DOT)

**UN** number

: 3265

Description of the goods

: Corrosive liquid, acidic, organic, n.o.s. (Phosphoric acid, Hydrogen peroxide)

Class

: 8

Packing group

: 111

Environmentally hazardous

: no

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### **OCTAVE**

Sea transport (IMDG/IMO)

UN number

: 3265

Description of the goods

: CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S.

(Phosphoric acid, Hydrogen peroxide)

Class Packing group Marine pollutant : no

#### **SECTION 15. REGULATORY INFORMATION**

**EPA Registration number** 

: 1677-207

**EPCRA - Emergency Planning and Community Right-to-Know** 

#### **CERCLA Reportable Quantity**

Ingredients	CAS-No.	Component RQ (lbs)	Calculated product RQ
			(lbs)
Phosphoric acid	7664-38-2	5000	18822

## SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

SARA 311/312 Hazards

: Fire Hazard

Acute Health Hazard

**SARA 302** 

: No chemicals in this material are subject to the reporting requirements

of SARA Title III, Section 302.

The following components are subject to reporting levels established

by SARA Title III, Section 302:

Hydrogen peroxide

7722-84-1

7.52 %

**SARA 313** 

: This material does not contain any chemical components with known

CAS numbers that exceed the threshold (De Minimis) reporting levels

established by SARA Title III, Section 313.

#### California Prop 65

This product does not contain any chemicals known to the State of California to cause cancer, birth, or any other reproductive defects.

#### The ingredients of this product are reported in the following inventories:

#### Switzerland. New notified substances and declared preparations :

not determined

### United States TSCA Inventory:

On TSCA Inventory

#### Canadian Domestic Substances List (DSL):

This product contains one or several components listed in the Canadian NDSL.

#### Australia Inventory of Chemical Substances (AICS):

On the inventory, or in compliance with the inventory

### New Zealand. Inventory of Chemical Substances:

On the inventory, or in compliance with the inventory

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## Japan. ENCS - Existing and New Chemical Substances Inventory :

On the inventory, or in compliance with the inventory

### Japan. ISHL - Inventory of Chemical Substances (METI) :

On the inventory, or in compliance with the inventory

## Korea. Korean Existing Chemicals Inventory (KECI):

not determined

# Philippines Inventory of Chemicals and Chemical Substances (PICCS):

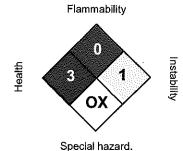
not determined

# China. Inventory of Existing Chemical Substances in China (IECSC):

not determined

## **SECTION 16. OTHER INFORMATION**

#### NFPA:



#### HMIS III:

HEALTH	3
FLAMMABILITY	0
PHYSICAL HAZARD	1

0 = not significant, 1 = Slight,

2 = Moderate, 3 = High

4 = Extreme, \* = Chronic

Issuing date

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Version

: 1.1

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.

The information provided in this Material 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.