

#### MANDATE

# SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name

: MANDATE

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 telephone

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

Issuing date

08/20/2014

## **SECTION 2. HAZARDS IDENTIFICATION**

#### **GHS Classification**

Acute toxicity (Oral)
Acute toxicity (Inhalation)

Acute toxicity (Dermal)
Skin corrosion

Serious eye damage

: Category 4 : Category 4

Category 4
Category 1A

Category 1

### **GHS Label element**

Hazard pictograms





Signal Word

: Danger

**Hazard Statements** 

: Harmful if swallowed, in contact with skin or if inhaled.

Causes severe skin burns and eye damage.

**Precautionary Statements** 

: Prevention:

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

Pachanas

Response:

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

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contaminated clothing before reuse.

Storage: 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

CAS-No. Concentration (%) **Chemical Name** Phosphoric acid 7664-38-2 23.8 20 citric acid 77-92-9 5 - 10 5324-84-5 Secondary Alkanesulphonates 124-07-2 6 Octanoic acid 334-48-5 2 capric acid

### **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 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.

See toxicological Information (Section 11)

### **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.

Specific hazards during fire

fighting

: Not flammable or combustible.

Hazardous combustion

products

Decomposition products may include the following materials:

Carbon oxides

Nitrogen oxides (NOx)

Sulfur oxides

Oxides of phosphorus

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for fire-fighters

Special protective equipment : 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.

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 noncombustible 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. 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 away from strong bases. Keep out of reach of children. Store in suitable labeled containers.

Storage temperature

: -10 °C to 50 °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
<u> </u>		STEL	3 ppm	ACGIH
		TWA	1 mg/m3	NIOSH REL
		ST	3 mg/m3	NIOSH REL
		TWA	1 mg/m3	OSHA Z-1

Engineering measures

: Effective exhaust ventilation system. Maintain air concentrations below occupational exposure standards.

### Personal protective equipment

Eye protection

: Safety goggles Face-shield

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Wear the following personal protective equipment: Hand protection

Standard glove type.

Gloves should be discarded and replaced if there is any indication of

degradation or chemical breakthrough.

: Personal protective equipment comprising: suitable protective gloves, Skin protection

safety goggles and protective clothing

: When workers are facing concentrations above the exposure limit they Respiratory protection

must use appropriate certified respirators.

: Handle in accordance with good industrial hygiene and safety Hygiene measures

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

: liquid **Appearance** 

Color : vellow Odor pungent

£ 1.0, 100 % рΗ

Not applicable Flash point

: No data available Odor Threshold : No data available Melting point/freezing point

Initial boiling point and

boiling range

: No data available

No data available Evaporation rate

Flammability (solid, gas) No data available No data available

Upper explosion limit No data available Lower explosion limit No data available Vapor pressure

No data available Relative vapor density

Relative density : 1.273

No data available Water solubility No data available Solubility in other solvents No data available

Partition coefficient: n-

Autoignition temperature

octanol/water

No data available

. 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

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### 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

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

: Causes digestive tract burns.

Inhalation

: 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

Inhalation

: Respiratory irritation, Cough

### **Toxicity**

Acute oral toxicity

LD50 Rat: 1,500 mg/kg

Acute inhalation toxicity

4 h Acute toxicity estimate: 3.45 mg/l

Acute dermal toxicity

: LD50 Rabbit: 1,500 mg/kg

Skin corrosion/irritation

: No data available

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Serious eye damage/eye

irritation

: No data available

Respiratory or skin

sensitization

: No data available

Carcinogenicity

: No data available: No data available

Reproductive effects

Germ cell mutagenicity

No data availableNo data available

Teratogenicity
STOT-single exposure

: No data available
: No data available

STOT-repeated exposure

: No data available

Aspiration toxicity

: No data available

### SECTION 12. ECOLOGICAL INFORMATION

**Ecotoxicity** 

**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

Ingredients

Toxicity to fish

: Phosphoric acid 96 h LC50: 75.1 mg/l

citric acid

96 h LC50 Fish: > 100 mg/i

Octanoic acid

96 h LC50 Fish: 22 mg/l

capric acid

96 h LC50 Fish: 20 mg/l

**Ingredients** 

Toxicity to daphnia and other

aquatic invertebrates

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

Persistence and degradability

No data available

**Bioaccumulative potential** 

No data available

**Mobility in soil** 

No data available

Other adverse effects

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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.

RCRA - Resource

Conservation and Recovery Authorization Act Hazardous

waste

: D002 (Corrosive)

## **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** 

: 1805

Description of the goods

: Phosphoric acid solution

Class Packing group : 8 : III

Environmentally hazardous

no

Air transport (IATA)

**UN number** 

: 1805

Description of the goods

Phosphoric acid, solution

Class

: 8

Packing group

: 111

Environmentally hazardous

: no

#### SECTION 15. REGULATORY INFORMATION

**EPA Registration number** 

: 1677-90

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	21011	

# SARA 304 Extremely Hazardous Substances Reportable Quantity

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

SARA 311/312 Hazards

: Acute Health Hazard

**SARA 302** 

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

of SARA Title III, Section 302.

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#### **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:

### **United States TSCA Inventory:**

On TSCA Inventory

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

All components of this product are on the Canadian DSL.

### 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

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

On the inventory, or in compliance with the inventory

## Japan. ISHL - Inventory of Chemical Substances:

On the inventory, or in compliance with the inventory

# Korea. Korean Existing Chemicals Inventory (KECI):

On the inventory, or in compliance with the inventory

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

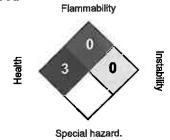
On the inventory, or in compliance with the inventory

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

On the inventory, or in compliance with the inventory

#### SECTION 18. OTHER INFORMATION

### NFPA:



#### HMIS III:

PHYSICAL HAZARD	0
FLAMMABILITY	0
HEALTH	3

0 = not significant, 1 =Slight,

2 = Moderate, 3 = High

4 = Extreme, \* = Chronic

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: 1.0

Prepared by : Regulatory Affairs

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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.