

PL-10

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

Product name

: PL-10

Other means of identification

Not applicable.

Recommended use

: Cleaning product

Restrictions on use

Reserved for industrial and professional use.

Product dilution information

0.1 % - 1.5 %

Company

Ecolab Co.

5105 Tomken Road

Mississauga, Ontario Canada L4W 2X5

1-800-352-5326

Emergency telephone

number

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

Issuing date

08/15/2014

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

**Product AS SOLD** 

Physical and chemical

hazards

: Not flammable or combustible.

**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.

**Product AT USE DILUTION** 

Physical and chemical

hazards

: Not flammable or combustible.

**Potential Health Effects** 

Eyes

: Causes serious eye damage.

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

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**Product AS SOLD** 

Pure substance/mixture

Mixture

**Chemical Name** 

Phosphoric acid

CAS-No.

Concentration: (%)

7664-38-2

30 - 60

**Product AT USE DILUTION** 

Chemical Name Phosphoric acid CAS-No.

Concentration: (%)

7664-38-2

0.1 - 1

### **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.

**Product AT USE DILUTION** 

In case of eye contact

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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.

See toxicological information (Section 11)

### **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

: Not flammable or combustible.

Hazardous combustion products

: Decomposition products may include the following materials:

Carbon oxides

nitrogen oxides (NOx) Sulphur oxides Oxides of phosphorus

Special protective equipment for firefighters

: 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.

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. 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.

### **Product AT USE DILUTION**

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.

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### **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

### **PL-10**

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 away from strong bases. Keep out of reach of children. Store in

suitable labeled containers.

Storage temperature

: 15 °C to 40 °C

#### **Product AT USE DILUTION**

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

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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
Phosphoric acid	7664-38-2	TWA	1 mg/m3	CAD AB OEL
		STEL	3 mg/m3	CAD AB OEL
		TWA	1 mg/m3	CAD BC OEL
		STEL	3 mg/m3	CAD BC OEL
		VME	1 mg/m3	OEL (QUE)
		STEV	3 mg/m3	OEL (QUE)
Phosphoric acid	7664-38-2	TWA	1 mg/m3	ACGIH
		STEL	3 ppm	ACGIH
		TWA	1 mg/m3	NIOSH REL
		STEL	3 mg/m3	NIOSH REL
		TWA	1 mg/m3	OSHA Z1

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.

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.

**Product AT USE DILUTION** 

Engineering measures

Effective exhaust ventilation system Maintain air concentrations below

occupational exposure standards.

Personal protective equipment

Eye protection

Safety goggles Face-shield

Hand protection

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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.

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

**Product AS SOLD** 

**Product AT USE DILUTION** 

**Appearance** 

liquid

Colour

: red

light red

liquid

Odour

pH

: slight : 1.0, 100 %

slight 0.5 - 1.5

Flash point

: Not applicable.

Odour Threshold

: no data available

Melting point/freezing point

no data available

Initial boiling point and

: no data available

boiling range

: no data available

Evaporation rate

The data available

Flammability (solid, gas)

no data availableno data available

Upper explosion limit Lower explosion limit

: no data available

Vapour pressure

no data available

Relative vapour density

: no data available

Relative density

: 1.222

Water solubility

: soluble

Solubility in other solvents

: no data available

Partition coefficient: n-

: no data available

octanol/water

. 110 data available

Auto-ignition temperature

: no data available

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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

: 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) Sulphur oxides Oxides of phosphorus

### **SECTION 11. TOXICOLOGICAL INFORMATION**

exposure

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

### **Potential Health Effects**

**Product AS SOLD** 

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.

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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

#### **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

: Redness, Pain, Corrosion

Skin contact

: Redness, Pain, Corrosion

Ingestion

: Corrosion, Abdominal pain

Inhalation

: Respiratory irritation, Cough

### **Toxicity**

### **Product AS SOLD**

Acute oral toxicity

: no data available

Acute inhalation toxicity

: no data available

Acute dermal toxicity

: no data available

Skin corrosion/irritation

no data available : no data available

Serious eye damage/eye

irritation

Respiratory or skin

sensitization

no data available

Carcinogenicity

no data available no data available

Reproductive effects 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

Components Acute oral toxicity

: Phosphoric acid

LD50 rat: > 2,000 mg/kg

### Components

Acute inhalation toxicity

Phosphoric acid

4 h LC50 rat: 0.962 mg/l

### Components

Acute dermal toxicity

Phosphoric acid

LD50 rabbit: > 2,000 mg/kg

### **SECTION 12. ECOLOGICAL INFORMATION**

### **Product AS SOLD**

**Ecotoxicity** 

**Environmental Effects** 

: Harmful 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

Components

Toxicity to fish

: Phosphoric acid

96 h LC50: 75.1 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**

#### **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.

### **Product AT USE DILUTION**

Disposal methods

: 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.

### **SECTION 14. TRANSPORT INFORMATION**

#### **Product AS SOLD**

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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 : 1805

Description of the goods : PHOSPHORIC ACID, SOLUTION

Class : 8 Packing group : III

Environmentally hazardous : No

Sea Transport (IMDG/IMO)

UN number : 1805

Description of the goods : PHOSPHORIC ACID SOLUTION

Class : 8
Packing group : III
Marine pollutant : No

Product AT USE DILUTION Not intended for transport.

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

**Product AS SOLD** 

WHMIS Classification : E Corrosive Material

**Product AT USE DILUTION** 

WHMIS Classification : E Corrosive Material

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

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 :

not determined

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

not determined

Korea. Korean Existing Chemicals Inventory (KECI):

On the inventory, or in compliance with the inventory

Philippines Inventory of Chemicals and Chemical Substances (PICCS):

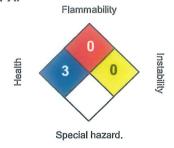
On the inventory, or in compliance with the inventory

# China Inventory of Existing Chemical Substances:

On the inventory, or in compliance with the inventory

### **SECTION 16. OTHER INFORMATION**

### **Product AS SOLD** NFPA:



#### HMIS III:

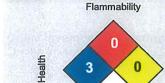
HEALTH	3
FLAMMABILITY	0
PHYSICAL HAZARD	0

0 = not significant, 1 = Slight,

2 = Moderate, 3 = High

4 = Extreme, \* = Chronic

### **Product AT USE DILUTION** NFPA:



Special hazard.

### HMIS III:

HEALTH	3
FLAMMABILITY	0
PHYSICAL HAZARD	0

0 = not significant, 1 = Slight,

2 = Moderate, 3 = High 4 = Extreme, \* = Chronic

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: 08/15/2014

version

1.0

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 MSDS.

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 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.