

#### Less-CU

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

Product name : Less-CU

Other means of identification : Not applicable

Recommended use : Veterinary care

Restrictions on use : Reserved for industrial and professional use.

Product dilution information : No dilution information provided.

Company : Ecolab Inc.

1 Ecolab Place

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 : 09/24/2019

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

#### **GHS Classification**

Skin corrosion : Category 1A Serious eye damage : Category 1

**GHS** label elements

Hazard pictograms



Signal Word : Danger

Hazard Statements : Causes severe skin burns and eye damage.

Precautionary Statements : Prevention:

Wash skin thoroughly after handling. Wear protective gloves/

protective clothing/ eye protection/ face protection.

Response:

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/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/doctor. Wash

contaminated clothing before reuse.

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.

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

Pure substance/mixture : Mixture

Chemical name	CAS-No.	Concentration (%)
Phosphoric acid	7664-38-2	10 - 30
Alkyl (50% C14, 40% C12, 10% C16) dimethyl	68424-85-1	1 - 5
benzyl ammonium chloride		
poly(oxy-1,2-ethanediyl), .alphaisotridecyl-	9043-30-5	1 - 5
.omegahydroxy-		
Octyl decyl dimethyl ammonium chloride	32426-11-2	1 - 5
Didecyl Dimethyl Ammonium Chloride	7173-51-5	1 - 5
ethanol	64-17-5	1 - 5
Dioctyl dimethyl ammonium chloride	5538-94-3	1 - 5

### **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.

Most important symptoms and effects, both acute and

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.

Specific hazards during fire

fighting

: Not flammable or combustible.

Hazardous combustion

products

: Decomposition products may include the following materials:

Carbon oxides

Oxides of phosphorus

Special protective equipment : Use personal protective equipment.

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for fire-fighters

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**

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.

### **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. In case of mechanical malfunction, or if in contact with unknown dilution of

product, wear full Personal Protective Equipment (PPE).

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

Components	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
		STEL	3 mg/m3	NIOSH REL
		TWA	1 mg/m3	OSHA Z1
ethanol	64-17-5	TWA	1,000 ppm 1,900 mg/m3	NIOSH REL
		TWA	1,000 ppm 1,900 mg/m3	OSHA Z1

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

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#### 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 : clear, light yellow

Odor : slight

pH : 1.7 - 2.0, (100 %)

Flash point : Not applicable, Does not sustain combustion.

Odor Threshold : No data available

Melting point/freezing point : No data available

Initial boiling point and

boiling range

: > 100 °C

: No data available

Evaporation rate : No data available
Flammability (solid, gas) : Not applicable
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 : 1.141 - 1.161

Water solubility : soluble

Solubility in other solvents : No data available Partition coefficient: n- : No data available

octanol/water

Explosive properties

Autoignition temperature : No data available
Thermal decomposition : No data available
Viscosity, kinematic : No data available

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Oxidizing properties : No data available Molecular weight : No data available VOC : No data available

# **SECTION 10. STABILITY AND REACTIVITY**

: No dangerous reaction known under conditions of normal use. 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

: In case of fire hazardous decomposition products may be produced

such as:

Carbon oxides

Oxides of phosphorus

# **SECTION 11. TOXICOLOGICAL INFORMATION**

exposure

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

#### **Potential Health Effects**

: Causes serious eye damage. Eyes

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

: Corrosion, Abdominal pain Ingestion

Inhalation : Respiratory irritation, Cough

**Toxicity** 

**Product** 

Acute oral toxicity : Acute toxicity estimate : 2,508 mg/kg

Acute inhalation toxicity : No data available

Acute dermal toxicity : Acute toxicity estimate : > 5,000 mg/kg

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Skin corrosion/irritation : No data available

Serious eye damage/eye

irritation

: No data available

Respiratory or skin

sensitization

: No data available

: No data available Carcinogenicity : 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

: Alkyl (50% C14, 40% C12, 10% C16) dimethyl benzyl ammonium Acute inhalation toxicity

chloride

4 h LC50 Rat: 0.054 mg/l Test atmosphere: dust/mist

Octyl decyl dimethyl ammonium chloride

4 h LC50 Rat: 0.07 mg/l Test atmosphere: dust/mist

Didecyl Dimethyl Ammonium Chloride

4 h LC50 Rat: 0.07 mg/l Test atmosphere: dust/mist

ethanol

4 h LC50 Rat: 117 mg/l Test atmosphere: vapor

Dioctyl dimethyl ammonium chloride

4 h LD50 Rat: 0.07 mg/l Test atmosphere: dust/mist

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

**Ecotoxicity** 

**Environmental Effects** : Toxic to aquatic life with long lasting effects.

**Product** 

Toxicity to fish : 96 h LC50: 8.6 mg/l Toxicity to daphnia and other : No data available

aquatic invertebrates

: No data available

Toxicity to algae Components

Toxicity to daphnia and other : Phosphoric acid

aquatic invertebrates

48 h EC50 Daphnia magna (Water flea): > 100 mg/l

Alkyl (50% C14, 40% C12, 10% C16) dimethyl benzyl ammonium

chloride

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48 h EC50 Daphnia magna (Water flea): 0.016 mg/l

Dioctyl dimethyl ammonium chloride

96 h LC50: 0.073 mg/l

Components

Toxicity to algae : Phosphoric acid

72 h EC50 Desmodesmus subspicatus (green algae): > 100 mg/l

Dioctyl dimethyl ammonium chloride

72 h EC50 Pseudokirchneriella subcapitata (algae): 0.122 mg/l

### Persistence and degradability

Poorly biodegradable

#### Bioaccumulative potential

No data available

#### Mobility in soil

No data available

#### Other adverse effects

No data available

# **SECTION 13. DISPOSAL CONSIDERATIONS**

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 reuse empty containers. Dispose of in accordance with local, state, and

federal regulations.

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 : 8
Packing group : III
Environmentally hazardous : no

Sea transport (IMDG/IMO)

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UN number : 1805

Description of the goods : PHOSPHORIC ACID SOLUTION

Class : 8
Packing group : III
Marine pollutant : no

# **SECTION 15. REGULATORY INFORMATION**

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

### **CERCLA Reportable Quantity**

Components	CAS-No.	Component RQ (lbs)	Calculated product RQ (lbs)
Phosphoric acid	7664-38-2	5000	18264

#### SARA 304 Extremely Hazardous Substances Reportable Quantity

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

SARA 311/312 Hazards : Skin corrosion or irritation

Serious eye damage or eye irritation

SARA 302 : This material does not contain any components with a section 302

EHS TPQ.

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.

#### California Cleaning Product Right to Know Act of 2017 (SB 258)

This regulation does not apply to this product.

#### The ingredients 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 Inventory of Chemical Substances (AICS):

not determined

# New Zealand. Inventory of Chemical Substances:

not determined

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

not determined

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

On the inventory, or in compliance with the inventory

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### 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):

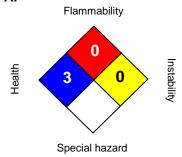
On the inventory, or in compliance with the inventory

# Taiwan Chemical Substance Inventory (TCSI):

On the inventory, or in compliance with the inventory

# **SECTION 16. OTHER INFORMATION**

#### NFPA:



#### HMIS III:

HEALTH	3
FLAMMABILITY	0
PHYSICAL HAZARD	0

0 = not significant, 1 =Slight,

2 = Moderate, 3 = High

4 = Extreme, \* = Chronic

Issuing date : 09/24/2019

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 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.

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