SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name: QUATERNARY DISINFECTANT WIPES

Other means of identification: Not applicable

Recommended use: Disinfectant

Restrictions on use: Reserved for industrial and professional use.

Product dilution information: Product is sold ready to use.

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: 11/29/2017

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification

Eye irritation: Category 2B

GHS label elements

Signal Word: Warning

Hazard Statements: Causes eye irritation.

Precautionary Statements:

Prevention: Wash skin thoroughly after handling. Wash hands thoroughly after handling. Wear protective gloves.

Response: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. IF ON SKIN: Wash with plenty of water. If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash it before reuse.

Other hazards: None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Pure substance/mixture: Mixture

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>CAS-No.</th>
<th>Concentration (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Poly(hexamethyleneguanidine) hydrochloride</td>
<td>27083-27-8</td>
<td>0.089</td>
</tr>
<tr>
<td>Octyl decyl dimethyl ammonium chloride</td>
<td>32426-11-2</td>
<td>0.1333</td>
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<tr>
<td>Didecyl Dimethyl Ammonium Chloride</td>
<td>7173-51-5</td>
<td>0.0799</td>
</tr>
<tr>
<td>Dioctyl dimethyl ammonium chloride</td>
<td>5538-94-3</td>
<td>0.0534</td>
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<tr>
<td>Alkyl (C14, 50%; C12, 40%; C16, 10%) dimethyl benzyl ammonium chloride</td>
<td>68424-85-1</td>
<td>0.1778</td>
</tr>
</tbody>
</table>

SECTION 4. FIRST AID MEASURES
In case of eye contact:

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

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.

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
- Nitrogen oxides (NOx)
- Sulfur oxides
- Oxides of phosphorus

Special protective equipment for fire-fighters:

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 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.
SAFETY DATA SHEET
QUATERNARY DISINFECTANT WIPES

SECTION 7. HANDLING AND STORAGE
Advice on safe handling: Avoid contact with skin and eyes. Wash hands thoroughly after handling.
Conditions for safe storage: Keep out of reach of children. Store in suitable labeled containers.
Storage temperature: 0 °C to 50 °C

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION
Ingredients with workplace control parameters
Contains no substances with occupational exposure limit values.
Engineering measures: Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

Personal protective equipment
Eye protection: No special protective equipment required.
Hand protection: Wear protective gloves.
Skin protection: No special protective equipment required.
Respiratory protection: No personal respiratory protective equipment normally required.
Hygiene measures: Handle in accordance with good industrial hygiene and safety practice. Wash face, hands and any exposed skin thoroughly after handling.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES
Appearance: absorbed liquid (wipes, pads, ...)
Color: white
Odor: mild
pH: 10.5 - 12.5, (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: 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
Vapor pressure: No data available
Relative vapor density: No data available
Relative density: No data available
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Water solubility : No data available
Solubility in other solvents : No data available
Partition coefficient: n-octanol/water : No data available
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 : No dangerous reaction known under conditions of normal use.
Conditions to avoid : None known.
Incompatible materials : None known.
Hazardous decomposition products : Decomposition products may include the following materials:
  Carbon oxides
  Nitrogen oxides (NOx)
  Sulfur oxides
  Oxides of phosphorus

SECTION 11. TOXICOLOGICAL INFORMATION

Potential Health Effects

Chronic Exposure : Health injuries are not known or expected under normal use.

Experience with human exposure

Eye contact : Redness, Pain, Irritation
Skin contact : No symptoms known or expected.
Ingestion : No symptoms known or expected.
Inhalation : No symptoms known or expected.

Toxicity

Product
Acute oral toxicity : No data available
Acute inhalation toxicity : No data available
Acute dermal toxicity : No data available
SAFETY DATA SHEET

QUATERNARY DISINFECTANT WIPES

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

Ingredients

Acute oral toxicity: Octyl decyl dimethyl ammonium chloride
LD50 Rat: 238 mg/kg

Didecyl Dimethyl Ammonium Chloride
LD50 Rat: 1,150 mg/kg

Dioctyl dimethyl ammonium chloride
LD50 Rat: 238 mg/kg

Alkyl (C14, 50%; C12, 40%; C16, 10%) dimethyl benzyl ammonium chloride
LD50 Rat: 344 mg/kg

Ingredients

Acute inhalation toxicity: 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

Dioctyl dimethyl ammonium chloride
4 h LC50 Rat: 0.07 mg/l
Test atmosphere: dust/mist

Alkyl (C14, 50%; C12, 40%; C16, 10%) dimethyl benzyl ammonium chloride
4 h LC50 Rat: > 0.054 mg/l
Test atmosphere: dust/mist

Ingredients

Acute dermal toxicity: Poly(hexamethylenebiguanide) hydrochloride
LD50 Rat: > 5,000 mg/kg

Octyl decyl dimethyl ammonium chloride
LD50 Rabbit: 2,930 mg/kg

Didecyl Dimethyl Ammonium Chloride
LD50 Rabbit: 2,930 mg/kg
**SAFETY DATA SHEET**

**QUATERNARY DISINFECTANT WIPES**

Dioctyl dimethyl ammonium chloride  
LD50 Rabbit: 2,930 mg/kg

Alkyl (C14, 50%; C12, 40%; C16, 10%) dimethyl benzyl ammonium chloride  
LD50 Rabbit: 3,340 mg/kg

### 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**
- Octyl decyl dimethyl ammonium chloride
  - 96 h LC50 Fish: 1 mg/l
- Didecyl Dimethyl Ammonium Chloride
  - 96 h LC50 Fish: 1 mg/l

**Ingredients**

**Toxicity to daphnia and other aquatic invertebrates**
- Dioctyl dimethyl ammonium chloride
  - 48 h EC50 Daphnia: 0.1 mg/l
- Alkyl (C14, 50%; C12, 40%; C16, 10%) dimethyl benzyl ammonium chloride
  - 48 h EC50 Daphnia magna (Water flea): 0.016 mg/l

**Persistence and degradability**

Not applicable - Biocide

**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.

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)
Not dangerous goods

Sea transport (IMDG/IMO)
Not dangerous goods

SECTION 15. REGULATORY INFORMATION

EPA Registration number: 6836-372-1677

EPCRA - Emergency Planning and Community Right-to-Know

CERCLA Reportable Quantity
This material does not contain any components with a CERCLA RQ.

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.

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
SAFETY DATA SHEET

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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

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:

<table>
<thead>
<tr>
<th>Flammability</th>
<th>Health</th>
<th>Instability</th>
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<tr>
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HMIS III:

<table>
<thead>
<tr>
<th>HEALTH</th>
<th>FLAMMABILITY</th>
<th>PHYSICAL HAZARD</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>0</td>
<td>0</td>
</tr>
</tbody>
</table>

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

Issuing date: 11/29/2017
Version: 1.2
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.