SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name: Neutral Disinfectant Cleaner
Other means of identification: Not applicable
Recommended use: Cleaner and disinfectant
Restrictions on use: Reserved for industrial and professional use.
Product dilution information: 0.391% - 1.56%

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: 09/15/2017

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification
Product AS SOLD
Acute toxicity (Oral): Category 4
Acute toxicity (Inhalation): Category 4
Acute toxicity (Dermal): Category 4
Skin corrosion: Category 1B
Serious eye damage: Category 1

Product AT USE DILUTION
Acute toxicity (Inhalation): Category 4

GHS label elements
Product AS SOLD
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. Response:
IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell. Rinse mouth. IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. IF ON SKIN (or hair): Take off immediately all contaminated
SAFETY DATA SHEET  
Neutral Disinfectant Cleaner

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.

### Product AT USE DILUTION

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>CAS-No.</th>
<th>Concentration (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Didecyl Dimethyl Ammonium Chloride</td>
<td>7173-51-5</td>
<td>10.14</td>
</tr>
<tr>
<td>n-Alkyl (C14 50%; C12 40%; C16 10%) dimethyl benzyl ammonium chloride</td>
<td>68424-85-1</td>
<td>6.76</td>
</tr>
<tr>
<td>n-Octanamide, n,n-dimethyl-, n-oxide</td>
<td>64-17-5</td>
<td>1 - 5</td>
</tr>
<tr>
<td>Sodium hydroxide</td>
<td>1310-73-2</td>
<td>0.1 - 1</td>
</tr>
</tbody>
</table>

### Product AS SOLD

**Other hazards**
None known.

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

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>CAS-No.</th>
<th>Concentration (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Didecyl Dimethyl Ammonium Chloride</td>
<td>7173-51-5</td>
<td>0.1582</td>
</tr>
<tr>
<td>n-Alkyl (C14 50%; C12 40%; C16 10%) dimethyl benzyl ammonium chloride</td>
<td>68424-85-1</td>
<td>0.1055</td>
</tr>
</tbody>
</table>

### 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.

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.

**Product AT USE DILUTION**

In case of eye contact: Rinse with plenty of water.

In case of skin contact: Rinse with plenty of water.

If swallowed: Rinse mouth. Get medical attention if symptoms occur.

If inhaled: Remove to fresh air. Treat symptomatically. Get medical attention.

**SECTION 5. FIRE-FIGHTING 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 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**

**Product AS SOLD**

Personal precautions, protective equipment and: Ensure adequate ventilation. Keep people away from and upwind of spill/leak. Avoid inhalation, ingestion and contact with skin and eyes.
SAFETY DATA SHEET
Neutral Disinfectant Cleaner

emergency procedures
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 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

Product AS SOLD
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.

Conditions for safe storage
: Keep out of reach of children. Store in suitable labeled containers.

Storage temperature
: 0 °C to 50 °C

Product AT USE DILUTION
Advice on safe handling
: Do not breathe dust/ fume/ gas/ mist/ vapors/ spray. Use only with adequate ventilation. Wash hands thoroughly after handling.

Conditions for safe storage
: Keep out of reach of children. Store in suitable labeled containers.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Product AS SOLD

Ingredients with workplace control parameters

<table>
<thead>
<tr>
<th>Ingredients</th>
<th>CAS-No.</th>
<th>Form of exposure</th>
<th>Permissible concentration</th>
<th>Basis</th>
</tr>
</thead>
<tbody>
<tr>
<td>ethanol</td>
<td>64-17-5</td>
<td>TWA</td>
<td>1,000 ppm 1,900 mg/m³</td>
<td>NIOSH REL</td>
</tr>
<tr>
<td></td>
<td></td>
<td>TWA</td>
<td>1,000 ppm 1,900 mg/m³</td>
<td>OSHA Z1</td>
</tr>
<tr>
<td>sodium hydroxide</td>
<td>1310-73-2</td>
<td>Ceiling</td>
<td>2 mg/m³</td>
<td>ACGIH</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Ceiling</td>
<td>2 mg/m³</td>
<td>NIOSH REL</td>
</tr>
</tbody>
</table>
### SAFETY DATA SHEET

**Neutral Disinfectant Cleaner**

<table>
<thead>
<tr>
<th></th>
<th>TWA</th>
<th>2 mg/m³</th>
<th>OSHA Z1</th>
</tr>
</thead>
<tbody>
<tr>
<td>Engineering measures</td>
<td>Effective exhaust ventilation system. Maintain air concentrations below occupational exposure standards.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Personal protective equipment</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Eye protection</td>
<td>Wear eye protection/ face protection.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Hand protection</td>
<td>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.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Skin protection</td>
<td>Personal protective equipment comprising: suitable protective gloves, safety goggles and protective clothing</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Respiratory protection</td>
<td>When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Hygiene measures</td>
<td>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.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Product AT USE DILUTION

<table>
<thead>
<tr>
<th></th>
<th>TWA</th>
<th>2 mg/m³</th>
<th>OSHA Z1</th>
</tr>
</thead>
<tbody>
<tr>
<td>Engineering measures</td>
<td>Effective exhaust ventilation system. Maintain air concentrations below occupational exposure standards.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Personal protective equipment</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Eye protection</td>
<td>No special protective equipment required.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Hand protection</td>
<td>No special protective equipment required.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Skin protection</td>
<td>No special protective equipment required.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Respiratory protection</td>
<td>When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

<table>
<thead>
<tr>
<th></th>
<th>Product AS SOLD</th>
<th>Product AT USE DILUTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>liquid</td>
<td>liquid</td>
</tr>
<tr>
<td>Color</td>
<td>clear, red</td>
<td>light red</td>
</tr>
<tr>
<td>Odor</td>
<td>Disinfectants</td>
<td>Disinfectants</td>
</tr>
<tr>
<td>pH</td>
<td>7.2 - 8.2, (100 %)</td>
<td>6.0 - 9.0</td>
</tr>
<tr>
<td>Flash point</td>
<td>Not applicable, Does not sustain combustion.</td>
<td></td>
</tr>
<tr>
<td>Odor Threshold</td>
<td>No data available</td>
<td></td>
</tr>
<tr>
<td>Melting point/freezing point</td>
<td>No data available</td>
<td></td>
</tr>
<tr>
<td>Initial boiling point and boiling range</td>
<td>&gt; 100 °C</td>
<td></td>
</tr>
<tr>
<td>Evaporation rate</td>
<td>No data available</td>
<td></td>
</tr>
</tbody>
</table>
SAFETY DATA SHEET
Neutral Disinfectant Cleaner

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: 0.987 - 1.008
Water solubility: soluble
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

Product AS SOLD
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

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

Potential Health Effects

Product AS SOLD
Eyes: Causes serious eye damage.
Skin: Causes severe skin burns. Harmful in contact with skin.
Ingestion: Harmful if swallowed. Causes digestive tract burns.
Inhalation: Harmful if inhaled. May cause nose, throat, and lung irritation.
SAFETY DATA SHEET
Neutral Disinfectant Cleaner

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

**Product AT USE DILUTION**

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Eyes</strong></td>
<td>Health injuries are not known or expected under normal use.</td>
</tr>
<tr>
<td><strong>Skin</strong></td>
<td>Health injuries are not known or expected under normal use.</td>
</tr>
<tr>
<td><strong>Ingestion</strong></td>
<td>Health injuries are not known or expected under normal use.</td>
</tr>
<tr>
<td><strong>Inhalation</strong></td>
<td>Harmful if inhaled.</td>
</tr>
<tr>
<td><strong>Chronic Exposure</strong></td>
<td>Health injuries are not known or expected under normal use.</td>
</tr>
</tbody>
</table>

**Experience with human exposure**

**Product AS SOLD**

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Eye contact</strong></td>
<td>Redness, Pain, Corrosion</td>
</tr>
<tr>
<td><strong>Skin contact</strong></td>
<td>Redness, Pain, Corrosion</td>
</tr>
<tr>
<td><strong>Ingestion</strong></td>
<td>Corrosion, Abdominal pain</td>
</tr>
<tr>
<td><strong>Inhalation</strong></td>
<td>Respiratory irritation, Cough</td>
</tr>
</tbody>
</table>

**Product AT USE DILUTION**

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Eye contact</strong></td>
<td>No symptoms known or expected.</td>
</tr>
<tr>
<td><strong>Skin contact</strong></td>
<td>No symptoms known or expected.</td>
</tr>
<tr>
<td><strong>Ingestion</strong></td>
<td>No symptoms known or expected.</td>
</tr>
<tr>
<td><strong>Inhalation</strong></td>
<td>No information available.</td>
</tr>
</tbody>
</table>

**Toxicity**

**Product AS SOLD**

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Acute oral toxicity</strong></td>
<td>No data available</td>
</tr>
<tr>
<td><strong>Acute dermal toxicity</strong></td>
<td>No data available</td>
</tr>
<tr>
<td><strong>Skin corrosion/irritation</strong></td>
<td>No data available</td>
</tr>
<tr>
<td><strong>Serious eye damage/eye irritation</strong></td>
<td>No data available</td>
</tr>
<tr>
<td><strong>Respiratory or skin sensitization</strong></td>
<td>No data available</td>
</tr>
<tr>
<td><strong>Carcinogenicity</strong></td>
<td>No data available</td>
</tr>
<tr>
<td><strong>Reproductive effects</strong></td>
<td>No data available</td>
</tr>
<tr>
<td><strong>Germ cell mutagenicity</strong></td>
<td>No data available</td>
</tr>
<tr>
<td><strong>Teratogenicity</strong></td>
<td>No data available</td>
</tr>
<tr>
<td><strong>STOT-single exposure</strong></td>
<td>No data available</td>
</tr>
<tr>
<td><strong>STOT-repeated exposure</strong></td>
<td>No data available</td>
</tr>
<tr>
<td><strong>Aspiration toxicity</strong></td>
<td>No data available</td>
</tr>
</tbody>
</table>

**Ingredients**
SAFETY DATA SHEET

Neutral Disinfectant Cleaner

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

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

ethanol
LD50 Rat: 10,470 mg/kg

1-octanamine, n,n-dimethyl-, n-oxide
LD50 Rat: 5,000 mg/kg

Ingredients

Acute dermal toxicity: Didecyl Dimethyl Ammonium Chloride
LD50 Rabbit: 2,930 mg/kg

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

ethanol
LD50 Rabbit: > 15,800 mg/kg

SECTION 12. ECOLOGICAL INFORMATION

Product AS SOLD

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: Didecyl Dimethyl Ammonium Chloride
96 h LC50 Fish: 1 mg/l

ethanol
96 h LC50 Pimephales promelas: > 100 mg/l

Ingredients

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

Sodium hydroxide
48 h EC50: 40 mg/l

Ingredients

Toxicity to algae: 1-octanamine, n,n-dimethyl-, n-oxide
72 h EC50: 27 mg/l
SAFETY DATA SHEET

Neutral Disinfectant Cleaner

Persistence and degradability

Product AS SOLD
Not applicable - Biocide

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
: 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.

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. Dispose of in accordance with local, state, and federal regulations.

SECTION 14. TRANSPORT INFORMATION

Product AS SOLD

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 : 1903
Description of the goods : Disinfectant, liquid, corrosive, n.o.s.
(quaternary ammonium compound)
Class : 8
Packing group : III
Environmentally hazardous : no

Sea transport (IMDG/IMO)
UN number : 1903
Description of the goods : DISINFECTANT, LIQUID, CORROSIVE, N.O.S.
(quaternary ammonium compound)
Class : 8
SAFETY DATA SHEET

Neutral Disinfectant Cleaner

Packing group : III
Marine pollutant : no

SECTION 15. REGULATORY INFORMATION

Product AS SOLD

EPA Registration number : 47371-129-1677
EPCRA - Emergency Planning and Community Right-to-Know

CERCLA Reportable Quantity

<table>
<thead>
<tr>
<th>Ingredients</th>
<th>CAS-No.</th>
<th>Component RQ (lbs)</th>
<th>Calculated product RQ (lbs)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium hydroxide</td>
<td>1310-73-2</td>
<td>1000</td>
<td>106496</td>
</tr>
</tbody>
</table>

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) : This product contains one or several components that are not on the Canadian DSL nor NDSL.

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) : not determined

Philippines Inventory of Chemicals and Chemical Substances (PICCS) : not determined

China. Inventory of Existing Chemical Substances in China (IECSC) : On the inventory, or in compliance with the inventory

Taiwan Chemical Substance Inventory :
SAFETY DATA SHEET

Neutral Disinfectant Cleaner

not determined

SECTION 16. OTHER INFORMATION

Product AS SOLD
NFPA:

HMIS III:

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

Issuing date : 09/15/2017
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.