SAFETY DATA SHEET
MULTI-PURPOSE NEUTRAL PH GERMICIDAL DETERGENT

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : MULTI-PURPOSE NEUTRAL PH GERMICIDAL DETERGENT
Other means of identification : Not applicable
Recommended use : Disinfectant
Restrictions on use : Reserved for industrial and professional use.
Product dilution information : 1.56 %

Company : Ecolab Inc.
1 Ecolab Place
St. Paul, Minnesota USA 55102
1-866-444-7450

Emergency health information : 1-800-328-0026 (US/Canada), 1-651-222-5352 (outside US)

Issuing date : 09/19/2019

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification

Product AS SOLD
Acute toxicity (Inhalation) : Category 4
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 : Causes serious eye damage. Harmful if inhaled.

Precautionary Statements: Prevention:
Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray. Use only outdoors or in a well-ventilated area. Wear eye protection/ face protection.

Response:
IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell. 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.
SAFETY DATA SHEET
MULTI-PURPOSE NEUTRAL PH GERMICIDAL DETERGENT

Product AT USE DILUTION

Hazard pictograms:

Signal Word: Warning
Hazard Statements: Harmful if inhaled.
Precautionary Statements:

Prevention: Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray. Use only outdoors or in a well-ventilated area.
Response: IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell.

Product AS SOLD

Other hazards: None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Product AS SOLD
Pure substance/mixture: Mixture

Chemical name | CAS-No. | Concentration (%)
--- | --- | ---
Didecyl Dimethyl Ammonium Chloride | 7173-51-5 | 2.645
Alkyl (50% C14, 40% C12, 10% C16) dimethyl benzyl ammonium chloride | 68424-85-1 | 1.587
Terpenes and Terpenoids, citrus-oil | 68608-34-4 | 0.1 - 1

Product AT USE DILUTION

No hazardous ingredients

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: 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.

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.
SAFETY DATA SHEET

MULTI-PURPOSE NEUTRAL PH GERMICIDAL DETERGENT

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)
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 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 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 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. 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 out of reach of children. Store in suitable labeled containers.
- **Storage temperature**: 5 °C to 35 °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. 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 out of reach of children. Store in suitable labeled containers.

## SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION
### Product AS SOLD
**Ingredients with workplace control parameters**
Contains no substances with occupational exposure limit values.

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

- **Personal protective equipment**
  - **Eye protection**: Wear eye protection/ face protection.
  - **Hand protection**: No special protective equipment required.
  - **Skin protection**: No special protective equipment required.
  - **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. 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**
SAFETY DATA SHEET
MULTI-PURPOSE NEUTRAL PH GERMICIDAL DETERGENT

Eye protection : No special protective equipment required.
Hand protection : No special protective equipment required.
Skin protection : No special protective equipment required.
Respiratory protection : When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

<table>
<thead>
<tr>
<th>Property</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, yellow</td>
<td>light yellow</td>
</tr>
<tr>
<td>Odor</td>
<td>citrus</td>
<td>citrus</td>
</tr>
<tr>
<td>pH</td>
<td>7.7, (100 %)</td>
<td>7.4</td>
</tr>
<tr>
<td>Flash point</td>
<td>closed cup</td>
<td>Not applicable</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>No data available</td>
<td></td>
</tr>
<tr>
<td>Evaporation rate</td>
<td>No data available</td>
<td></td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>No data available</td>
<td></td>
</tr>
<tr>
<td>Upper explosion limit</td>
<td>No data available</td>
<td></td>
</tr>
<tr>
<td>Lower explosion limit</td>
<td>No data available</td>
<td></td>
</tr>
<tr>
<td>Vapor pressure</td>
<td>No data available</td>
<td></td>
</tr>
<tr>
<td>Relative vapor density</td>
<td>No data available</td>
<td></td>
</tr>
<tr>
<td>Relative density</td>
<td>1.0</td>
<td></td>
</tr>
<tr>
<td>Water solubility</td>
<td>soluble</td>
<td></td>
</tr>
<tr>
<td>Solubility in other solvents</td>
<td>No data available</td>
<td></td>
</tr>
<tr>
<td>Partition coefficient: n-octanol/water</td>
<td>No data available</td>
<td></td>
</tr>
<tr>
<td>Autoignition temperature</td>
<td>No data available</td>
<td></td>
</tr>
<tr>
<td>Thermal decomposition</td>
<td>No data available</td>
<td></td>
</tr>
<tr>
<td>Viscosity, kinematic</td>
<td>No data available</td>
<td></td>
</tr>
<tr>
<td>Explosive properties</td>
<td>No data available</td>
<td></td>
</tr>
<tr>
<td>Oxidizing properties</td>
<td>No data available</td>
<td></td>
</tr>
<tr>
<td>Molecular weight</td>
<td>No data available</td>
<td></td>
</tr>
<tr>
<td>VOC</td>
<td>No data available</td>
<td></td>
</tr>
</tbody>
</table>

SECTION 10. STABILITY AND REACTIVITY

Product AS SOLD
Reactivity : No dangerous reaction known under conditions of normal use.
SAFETY DATA SHEET
MULTI-PURPOSE NEUTRAL PH GERMICIDAL DETERGENT

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 : In case of fire hazardous decomposition products may be produced such as:
Carbon oxides
Nitrogen oxides (NOx)

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 : Health injuries are not known or expected under normal use.
Ingestion : Health injuries are not known or expected under normal use.
Inhalation : Harmful if inhaled.
Chronic Exposure : Health injuries are not known or expected under normal use.

Product AT USE DILUTION
Eyes : Health injuries are not known or expected under normal use.
Skin : Health injuries are not known or expected under normal use.
Ingestion : Health injuries are not known or expected under normal use.
Inhalation : Harmful if inhaled.
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 : No symptoms known or expected.
Ingestion : No symptoms known or expected.
Inhalation : No information available.

Product AT USE DILUTION
Eye contact : No symptoms known or expected.
Skin contact : No symptoms known or expected.
### SAFETY DATA SHEET

**MULTI-PURPOSE NEUTRAL PH GERMICIDAL DETERGENT**

<table>
<thead>
<tr>
<th>Ingestion</th>
<th>No symptoms known or expected.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Inhalation</td>
<td>No information available.</td>
</tr>
</tbody>
</table>

#### Toxicity

**Product AS SOLD**

**Product**

<table>
<thead>
<tr>
<th>Acute oral toxicity</th>
<th>Acute toxicity estimate : &gt; 5,000 mg/kg</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute inhalation toxicity</td>
<td>4 h Acute toxicity estimate : 1.49 mg/l</td>
</tr>
<tr>
<td></td>
<td>Test atmosphere: dust/mist</td>
</tr>
<tr>
<td>Acute dermal toxicity</td>
<td>Acute toxicity estimate : &gt; 5,000 mg/kg</td>
</tr>
<tr>
<td>Skin corrosion/irritation</td>
<td>No skin irritation</td>
</tr>
<tr>
<td>Serious eye damage/eye</td>
<td>No data available</td>
</tr>
<tr>
<td>irritation</td>
<td></td>
</tr>
<tr>
<td>Respiratory or skin</td>
<td>Not a skin sensitizer.</td>
</tr>
<tr>
<td>sensitization</td>
<td></td>
</tr>
<tr>
<td>Carcinogenicity</td>
<td>No data available</td>
</tr>
<tr>
<td>Reproductive effects</td>
<td>No data available</td>
</tr>
<tr>
<td>Germ cell mutagenicity</td>
<td>No data available</td>
</tr>
<tr>
<td>Teratogenicity</td>
<td>No data available</td>
</tr>
<tr>
<td>STOT-single exposure</td>
<td>No data available</td>
</tr>
<tr>
<td>STOT-repeated exposure</td>
<td>No data available</td>
</tr>
<tr>
<td>Aspiration toxicity</td>
<td>No data available</td>
</tr>
</tbody>
</table>

#### SECTION 12. ECOLOGICAL INFORMATION

**Product AS SOLD**

**Ecotoxicity**

<table>
<thead>
<tr>
<th>Environmental Effects</th>
<th>Very toxic to aquatic life. Harmful to aquatic life with long lasting effects.</th>
</tr>
</thead>
</table>

**Product**

<table>
<thead>
<tr>
<th>Toxicity to fish</th>
<th>No data available</th>
</tr>
</thead>
<tbody>
<tr>
<td>Toxicity to daphnia and other aquatic invertebrates</td>
<td>No data available</td>
</tr>
<tr>
<td>Toxicity to algae</td>
<td>No data available</td>
</tr>
</tbody>
</table>

**Components**

<table>
<thead>
<tr>
<th>Toxicity to fish</th>
<th>Didecyl Dimethyl Ammonium Chloride</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>96 h LC50 Fish: 1 mg/l</td>
</tr>
</tbody>
</table>

|                      | Terpenes and Terpenoids, citrus-oil |
|                      | 96 h LC50 Pimephales promelas: 1.21 mg/l |
|                      | Test substance: Information given is based on data obtained from similar substances. |

**Components**

| Toxicity to daphnia and other aquatic invertebrates | Alkyl (50% C14, 40% C12, 10% C16) dimethyl benzyl ammonium chloride |
### Components

<table>
<thead>
<tr>
<th>Toxicity to algae</th>
<th>Terpenes and Terpenoids, citrus-oil</th>
</tr>
</thead>
<tbody>
<tr>
<td>96 h EC50</td>
<td>Selenastrum capricornutum (green algae): &gt; 3.38 mg/l</td>
</tr>
</tbody>
</table>

Test substance: Information given is based on data obtained from similar substances.

### Persistence and degradability

**Product AS SOLD**

Not applicable - Biocide

**Product AT USE DILUTION**

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**: 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 re-use empty containers. Dispose of in accordance with local, state, and federal regulations.

**Product AT USE DILUTION**

- **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 re-use empty containers. Dispose of in accordance with local, state, and federal regulations.
SAFETY DATA SHEET
MULTI-PURPOSE NEUTRAL PH GERMICIDAL DETERGENT

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)
Not dangerous goods

Sea transport (IMDG/IMO)
Not dangerous goods

SECTION 15. REGULATORY INFORMATION

Product AS SOLD

EPA Registration number : 47371-131-541

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 toxicity (any route of exposure)
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 applies to this product.

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS-No.</th>
<th>Function</th>
<th>List(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>water</td>
<td>7732-18-5</td>
<td>Diluent</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Didecyl Dimethyl Ammonium Chloride</td>
<td>7173-51-5</td>
<td>Biocide</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Alkyl (50% C14, 40% C12, 10% C16) dimethyl benzyl ammonium chloride</td>
<td>68424-85-1</td>
<td>Biocide</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Quaternary ammonium compound</td>
<td>Withheld</td>
<td>Cleaning Agent</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Substituted carboxylic acid</td>
<td>Withheld</td>
<td>Cleaning Agent</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Sodium hydroxide</td>
<td>1310-73-2</td>
<td>Buffer</td>
<td>20</td>
</tr>
<tr>
<td>terpenes and terpenoids, sweet orange-oil</td>
<td>68647-72-3</td>
<td>Fragrance</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Terpenes and Terpenoids, lemon-oil</td>
<td>68917-33-9</td>
<td>Fragrance</td>
<td>Not Applicable</td>
</tr>
</tbody>
</table>
### SAFETY DATA SHEET

**MULTI-PURPOSE NEUTRAL PH GERMICIDAL DETERGENT**

<table>
<thead>
<tr>
<th>Procedure</th>
<th>CAS Number</th>
<th>Type</th>
<th>Not Applicable</th>
</tr>
</thead>
<tbody>
<tr>
<td>Terpenes and Terpenoids, citrus oil</td>
<td>68608-34-4</td>
<td>Fragrance</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Eucalyptus oil</td>
<td>8000-48-4</td>
<td>Fragrance</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>3,7-dimethyloct-6-enenitrile</td>
<td>51566-62-2</td>
<td>Fragrance</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Colorant</td>
<td>Withheld</td>
<td>Dye</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Terpinolene</td>
<td>586-62-9</td>
<td>Fragrance</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Benzene, 1-methyl-4-(1-methylethyl)-</td>
<td>99-87-6</td>
<td>Fragrance</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Fragrance Ingredient(s)</td>
<td>Not Available</td>
<td>Fragrance</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Citral</td>
<td>5392-40-5</td>
<td>Fragrance</td>
<td>FRA</td>
</tr>
<tr>
<td>Perfume ingredient</td>
<td>98-55-5</td>
<td>Fragrance</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Colorant</td>
<td>Withheld</td>
<td>Dye</td>
<td>Not Applicable</td>
</tr>
</tbody>
</table>

*refer to ecolab.com/sds for electronic links to designated lists

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)**: This product contains one or several components listed in the Canadian 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)**: not determined

**Taiwan Chemical Substance Inventory (TCSI)**: not determined

### SECTION 16. OTHER INFORMATION

**Product AS SOLD**
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.