## SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

<table>
<thead>
<tr>
<th>Product name</th>
<th>ENDURE 420 CIDA-STAT</th>
</tr>
</thead>
<tbody>
<tr>
<td>Other means of identification</td>
<td>not applicable</td>
</tr>
<tr>
<td>Recommended use</td>
<td>Hand Sanitizer</td>
</tr>
<tr>
<td>Restrictions on use</td>
<td>Reserved for industrial and professional use.</td>
</tr>
<tr>
<td>Product dilution information</td>
<td>Product is sold ready to use.</td>
</tr>
<tr>
<td>Company</td>
<td>Ecolab Inc.</td>
</tr>
<tr>
<td></td>
<td>370 N. Wabasha Street</td>
</tr>
<tr>
<td></td>
<td>St. Paul, Minnesota USA 55102</td>
</tr>
<tr>
<td></td>
<td>1-800-352-5326</td>
</tr>
<tr>
<td>Emergency telephone</td>
<td>1-800-328-0026 (US/Canada), 1-651-222-5352 (outside US)</td>
</tr>
<tr>
<td>Issuing date</td>
<td>07/31/2014</td>
</tr>
</tbody>
</table>

## SECTION 2. HAZARDS IDENTIFICATION

### GHS Classification
- **Flammable liquids**: Category 3
- **Eye irritation**: Category 2A
- **Carcinogenicity**: Category 2

### GHS Label element
- **Hazard pictograms**: 
  - Flammable liquid symbol
  - Eye irritation symbol
  - Exclamation point

### Signal Word
- Warning

### Hazard Statements
- Flammable liquid and vapor.
- Causes serious eye irritation.
- Suspected of causing cancer.

### Precautionary Statements
- **Prevention:**
  Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Keep container tightly closed.
- **Response:**
  IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. IF exposed or concerned: Get medical advice/attention. If eye irritation persists: Get medical advice/attention. In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction.
- **Storage:**
  Store in a well-ventilated place. Keep cool. Store locked up.
- **Disposal:**
  Dispose of contents/container to an approved waste disposal plant.

### Other hazards
- None known.
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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>amines, coco alkyl(dimethyl, n-oxides</td>
<td>61788-90-7</td>
<td>1 - 5</td>
</tr>
<tr>
<td>propan-2-ol</td>
<td>67-63-0</td>
<td>1 - 5</td>
</tr>
<tr>
<td>Propylene glycol</td>
<td>57-55-6</td>
<td>1 - 5</td>
</tr>
<tr>
<td>Chlorhexidine gluconate</td>
<td>18472-51-0</td>
<td>1 - 5</td>
</tr>
<tr>
<td>amides, coco, n,n-bis(hydroxyethyl)</td>
<td>68603-42-9</td>
<td>1 - 5</td>
</tr>
<tr>
<td>2,2'-iminodiethanol</td>
<td>111-42-2</td>
<td>0.1 - 1</td>
</tr>
</tbody>
</table>

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.

In case of skin contact : Rinse with water.

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

If inhaled : Get medical attention if symptoms occur.

Protection of first-aiders : No special precautions are necessary for first aid responders.

Notes to physician : Treat symptomatically.

See toxicological information (Section 11)

SECTION 5. FIRE-FIGHTING MEASURES
Suitable extinguishing media : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable extinguishing media : High volume water jet

Specific hazards during fire fighting : Fire Hazard
Keep away from heat and sources of ignition.
Flash back possible over considerable distance.
Beware of vapors accumulating to form explosive concentrations.
Vapors can accumulate in low areas.

Hazardous combustion products : Carbon oxides

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 : Use water spray to cool unopened containers. 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: Remove all sources of ignition. 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: Eliminate all ignition sources if safe to do so. 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: Keep away from fire, sparks and heated surfaces. Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapors).


Storage temperature: 0 °C to 30 °C

**SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

<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>propan-2-ol</td>
<td>67-63-0</td>
<td>TWA</td>
<td>200 ppm</td>
<td>ACGIH</td>
</tr>
<tr>
<td></td>
<td></td>
<td>STEL</td>
<td>400 ppm</td>
<td>ACGIH</td>
</tr>
<tr>
<td></td>
<td></td>
<td>TWA</td>
<td>400 ppm 980 mg/m3</td>
<td>NIOSH REL</td>
</tr>
<tr>
<td></td>
<td></td>
<td>STEL</td>
<td>500 ppm 1,225 mg/m3</td>
<td>NIOSH REL</td>
</tr>
<tr>
<td></td>
<td></td>
<td>TWA</td>
<td>400 ppm 980 mg/m3</td>
<td>OSHA Z1</td>
</tr>
<tr>
<td>Propylene glycol</td>
<td>57-55-6</td>
<td>TWA</td>
<td>10 mg/m3</td>
<td>WEEL</td>
</tr>
<tr>
<td>2,2'-iminodiolene</td>
<td>111-42-2</td>
<td>TWA (Inhalable fraction and vapor)</td>
<td>1 mg/m3</td>
<td>ACGIH</td>
</tr>
<tr>
<td></td>
<td></td>
<td>TWA</td>
<td>3 ppm 15 mg/m3</td>
<td>NIOSH REL</td>
</tr>
</tbody>
</table>

Engineering measures: Good general ventilation should be sufficient to control worker exposure to airborne contaminants.
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Personal protective equipment

Eye protection : Safety glasses with side-shields
Hand protection : No special protective equipment required.
Skin protection : No special protective equipment required.
Respiratory protection : No personal respiratory protective equipment normally required.
Hygiene measures : No specific measures identified.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>liquid</td>
</tr>
<tr>
<td>Color</td>
<td>clear, amber</td>
</tr>
<tr>
<td>Odor</td>
<td>Floral</td>
</tr>
<tr>
<td>pH</td>
<td>6.0 - 7.5, 100 %</td>
</tr>
<tr>
<td>Flash point</td>
<td>48 °C</td>
</tr>
<tr>
<td>Odor Threshold</td>
<td>no data available</td>
</tr>
<tr>
<td>Melting point/freezing point</td>
<td>no data available</td>
</tr>
<tr>
<td>Initial boiling point and boiling range</td>
<td>&gt; 100 °C</td>
</tr>
<tr>
<td>Evaporation rate</td>
<td>no data available</td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>no data available</td>
</tr>
<tr>
<td>Upper explosion limit</td>
<td>no data available</td>
</tr>
<tr>
<td>Lower explosion limit</td>
<td>no data available</td>
</tr>
<tr>
<td>Vapor pressure</td>
<td>no data available</td>
</tr>
<tr>
<td>Relative vapor density</td>
<td>no data available</td>
</tr>
<tr>
<td>Relative density</td>
<td>1.0</td>
</tr>
<tr>
<td>Water solubility</td>
<td>no data available</td>
</tr>
<tr>
<td>Solubility in other solvents</td>
<td>no data available</td>
</tr>
<tr>
<td>Partition coefficient: n-octanol/water</td>
<td>no data available</td>
</tr>
<tr>
<td>Autoignition temperature</td>
<td>no data available</td>
</tr>
<tr>
<td>Thermal decomposition</td>
<td>no data available</td>
</tr>
<tr>
<td>Viscosity, kinematic</td>
<td>no data available</td>
</tr>
<tr>
<td>Explosive properties</td>
<td>no data available</td>
</tr>
<tr>
<td>Oxidizing properties</td>
<td>no data available</td>
</tr>
<tr>
<td>Molecular weight</td>
<td>no data available</td>
</tr>
<tr>
<td>VOC</td>
<td>no data available</td>
</tr>
</tbody>
</table>

SECTION 10. STABILITY AND REACTIVITY

Chemical stability : Stable under normal conditions.
Possibility of hazardous reactions : No dangerous reaction known under conditions of normal use.
reactions

Conditions to avoid : Heat, flames and sparks.
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

Eyes : Causes serious eye irritation.
Skin : Do not use in the perineal or eyelid areas. Do not instill in the middle ear – may cause deafness if ear drum is perforated.
Ingestion : Health injuries are not known or expected under normal use.
Inhalation : Health injuries are not known or expected under normal use.
Chronic Exposure : Suspected of causing cancer.

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

Acute oral toxicity : Acute toxicity estimate : > 5,000 mg/kg
Acute inhalation toxicity : 4 h Acute toxicity estimate : 23.64 mg/l
Acute dermal toxicity : no data available
Skin corrosion/irritation : no data available
Serious eye damage/eye irritation : no data available
Respiratory or skin sensitization : no data available
Carcinogenicity

IARC

Group 2B: Possibly carcinogenic to humans
amides, coco, n,n-bis(hydroxyethyl) 68603-42-9
2,2'-iminodiethanol 111-42-2

OSHA
No ingredient of this product present at levels greater than or equal to
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0.1% is identified as a carcinogen or potential carcinogen by OSHA.

NTP
No ingredient of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

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 dermal toxicity: amines, coco alkylidimethyl, n-oxides
LD50 rat: > 2,174 mg/kg
propan-2-ol
LD50 rabbit: 12,870 mg/kg
Chlorhexidine gluconate
LD50 rabbit: > 2,000 mg/kg
amides, coco, n,n-bis(hydroxyethyl)
LD50 rat: > 2,000 mg/kg
2,2’-iminodiethanol
LD50 rabbit: 8,180 mg/kg

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity
Environmental Effects: Toxic 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

Ingredients
Toxicity to fish:
- amines, coco alkylidimethyl, n-oxides
  96 h LC50 Fish: 1 mg/l
- propan-2-ol
  96 h LC50 Fish: 9,640 mg/l
- amides, coco, n,n-bis(hydroxyethyl)
  96 h LC50 Fish: 3.6 mg/l

Ingredients
Toxicity to daphnia and other aquatic invertebrates:
- Propylene glycol
  48 h EC50 Daphnia: 18,340 mg/l
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Chlorhexidine gluconate
48 h EC50: 0.06 mg/l

2,2’-iminodiethanol
48 h EC50 Daphnia: 65.5 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

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 re-use empty containers.


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)
UN number: 1987
Description of the goods: ALCOHOLS, N.O.S. (Isopropanol)
Class: 3
Packing group: III
Marine pollutant: no

SECTION 15. REGULATORY INFORMATION

EPCRA - Emergency Planning and Community Right-to-Know
CERCLA Reportable Quantity
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<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>2,2’-iminodiethanol</td>
<td>111-42-2</td>
<td>100</td>
<td>71429</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:
- Fire Hazard
- Acute Health Hazard
- Chronic Health Hazard

SARA 302: SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313: 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
WARNING! This product contains a chemical known in the State of California to cause cancer.

- amides, coco, n,n-bis(hydroxyethyl) 68603-42-9
- 2,2’-iminodiethanol 111-42-2

The ingredients of this product are reported in the following inventories:

1907/2006 (EU): not determined

Switzerland. New notified substances and declared preparations:
The mixture contains substances listed on the Swiss Inventory not determined

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):
not determined

New Zealand. Inventory of Chemical Substances:
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):
not determined

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

China. Inventory of Existing Chemical Substances in China (IECSC):
not determined
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.