SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name: ADVANCED ANTIBACTERIAL CLEAN & SMOOTH

Other means of identification: Not applicable

Recommended use: Hand Soap

Restrictions on use: Reserved for industrial and professional use.

Product dilution information: Product is sold ready to use.

Company: Ecolab Inc.
370 N. Wabasha Street
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: 09/13/2016

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification
Not a hazardous substance or mixture.

GHS label elements
Precautionary Statements:
Response: Get medical advice/attention if you feel unwell.
Storage: Store in accordance with local regulations.

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>amines, coco alkyldimethyl, n-oxides</td>
<td>61788-90-7</td>
<td>1 - 5</td>
</tr>
<tr>
<td>2-methylpentane-2,4-diol</td>
<td>107-41-5</td>
<td>1 - 5</td>
</tr>
<tr>
<td>Polyethylene glycol</td>
<td>25322-68-3</td>
<td>1 - 5</td>
</tr>
<tr>
<td>glycerin</td>
<td>56-81-5</td>
<td>1 - 5</td>
</tr>
</tbody>
</table>

SECTION 4. FIRST AID MEASURES

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: Get medical attention if symptoms occur.

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

ADVANCED ANTIBACTERIAL CLEAN & SMOOTH

Notes to physician : No specific measures identified.

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.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures : Refer to protective measures listed in sections 7 and 8.

Environmental precautions : No special environmental precautions required.

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 : Wash hands after handling. For personal protection see section 8.

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

Storage temperature : 5 °C to 40 °C

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ingredients with workplace control parameters
SAFETY DATA SHEET
ADVANCED ANTIBACTERIAL CLEAN & SMOOTH

Ingredients | CAS-No. | Form of exposure | Permissible concentration | Basis |
--- | --- | --- | --- | --- |
2-methylpentane-2,4-diol | 107-41-5 | Ceiling | 25 ppm | ACGIH |
 | | Ceiling | 25 ppm 125 mg/m³ | NIOSH REL |
Polyethylene glycol | 25322-68-3 | TWA (Aerosol.) | 10 mg/m³ | AIHA WEEL |
glycerin | 56-81-5 | TWA | 10 mg/m³ | ACGIH |
 | | TWA (respirable fraction) | 5 mg/m³ | OSHA Z1 |

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: No special protective equipment required.
Skin protection: No special protective equipment required.
Respiratory protection: No personal respiratory protective equipment normally required.
Hygiene measures: Wash hands before breaks and immediately after handling the product.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: liquid
Color: clear, blue
Odor: Floral
pH: 6.0 - 7.7, 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
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: 1.002
Water solubility: soluble
Solubility in other solvents: No data available
Partition coefficient: n- : No data available
octanol/water

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

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

Potential Health Effects

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

Experience with human exposure

Eye contact : No symptoms known or expected.
Skin contact : No symptoms known or expected.
Ingestion : No symptoms known or expected.
Inhalation : No symptoms known or expected.

Toxicity
SAFETY DATA SHEET
ADVANCED ANTIBACTERIAL CLEAN & SMOOTH

**Product**
Acute oral toxicity : Acute toxicity estimate : > 5,000 mg/kg
Acute inhalation toxicity : No data available
Acute dermal toxicity : Acute toxicity estimate : > 5,000 mg/kg
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 inhalation toxicity : 2-methylpentane-2,4-diol
4 h LC50 Rat: > 1.1 mg/l

**SECTION 12. ECOLOGICAL INFORMATION**

**Ecotoxicity**
Environmental Effects : Toxic to aquatic life. Harmful to aquatic life with long lasting 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 : amines, coco alkyldimethyl, n-oxides
96 h LC50 Fish: 1 mg/l
Polyethylene glycol
96 h LC50 Fish: > 1,000 mg/l
glycerin
96 h LC50 Fish: 855 mg/l

**Ingredients**
Toxicity to daphnia and other aquatic invertebrates : 2-methylpentane-2,4-diol
48 h EC50 Daphnia: 2,800 mg/l

**Persistence and degradability**
Readily biodegradable.
SAFETY DATA SHEET
ADVANCED ANTIBACTERIAL CLEAN & SMOOTH

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 re-use 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

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
No SARA Hazards

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.

918592-01 6 / 8
The ingredients of this product are reported in the following inventories:

**United States TSCA Inventory**:  
All components are listed or exempted.

**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**:  
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

**SECTION 16. OTHER INFORMATION**

**NFPA**

<table>
<thead>
<tr>
<th>Flammability</th>
<th>Health</th>
<th>Instability</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
</tbody>
</table>

| Special hazard. |

**HMIS III**

- **HEALTH**: 0  
- **FLAMMABILITY**: 0  
- **PHYSICAL HAZARD**: 0

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

Issuing date : 09/13/2016  
Version : 1.0  
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.