SAFETY DATA SHEET
ADVANCED ANTIBACTERIAL FOAMING HAND SOAP

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : ADVANCED ANTIBACTERIAL FOAMING HAND SOAP
Other means of identification : Not applicable
Recommended use : Skin-care
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 : 08/19/2015

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification
Not a hazardous substance or mixture.

GHS Label element
Precautionary Statements : Prevention:
Wash hands thoroughly after handling.
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 water.
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.
SAFETY DATA SHEET
ADVANCED ANTIBACTERIAL FOAMING HAND SOAP

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

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 : No special handling advice required.

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
SAFETY DATA SHEET

ADVANCED ANTIBACTERIAL FOAMING HAND SOAP

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>2-methylpentane-2,4-diol</td>
<td>107-41-5</td>
<td>Ceiling</td>
<td>25 ppm</td>
<td>ACGIH</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>25 ppm</td>
<td>NIOSH REL</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>125 mg/m³</td>
<td></td>
</tr>
<tr>
<td>Polyethylene Glycol</td>
<td>25322-68-3</td>
<td>TWA (Aerosol.)</td>
<td>10 mg/m³</td>
<td>AIHA WEEL</td>
</tr>
<tr>
<td>glycerin</td>
<td>56-81-5</td>
<td>TWA</td>
<td>10 mg/m³</td>
<td>ACGIH</td>
</tr>
<tr>
<td></td>
<td></td>
<td>TWA (respirable fraction)</td>
<td>5 mg/m³</td>
<td>OSHA Z1</td>
</tr>
</tbody>
</table>

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: No specific measures identified.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: liquid
Color: clear, blue
Odor: Floral
pH: 5.4 - 7.0, 100 %
Flash point: Not applicable
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: 1.001
Water solubility: soluble
Solubility in other solvents: No data available
SAFETY DATA SHEET
ADVANCED ANTIBACTERIAL FOAMING HAND SOAP

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

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
### 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**: Very 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 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**

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

**United States TSCA Inventory**:  
On the inventory, or in compliance with the inventory

**Canadian Domestic Substances List (DSL)**:  
This product contains the following 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**:  
Flammability  
Health  
Instability  
Special hazard.

**HMIS III**:

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

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

Issuing date : 08/19/2015  
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.