SAFETY DATA SHEET
ENDUST (AEROSOL)

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

<table>
<thead>
<tr>
<th>Product name</th>
<th>ENDUST (AEROSOL)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Other means of identification</td>
<td>not applicable</td>
</tr>
<tr>
<td>Recommended use</td>
<td>Cleaning product</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>06/02/2014</td>
</tr>
</tbody>
</table>

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification

| Flammable aerosols     | Category 2       |
| Gases under pressure   | Compressed gas   |
| Skin sensitization     | Category 1       |
| Specific target organ  | Category 3 (Central nervous system) |

GHS Label element

<table>
<thead>
<tr>
<th>Hazard pictograms</th>
</tr>
</thead>
<tbody>
<tr>
<td>![Hazard Pictograms]</td>
</tr>
</tbody>
</table>

Signal Word: Warning

Hazard Statements:
Flammable aerosol.
Contains gas under pressure; may explode if heated.
May cause an allergic skin reaction.
May cause drowsiness or dizziness.

Precautionary Statements:

Prevention:
Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
Do not spray on an open flame or other ignition source. Pressurized container: Do not pierce or burn, even after use. Avoid breathing dust/fume/gas/mist/vapors/spray. Use only outdoors or in a well-ventilated area. Contaminated work clothing should not be allowed out of the workplace. Wear protective gloves. Intentional misuse by deliberate inhalation may be harmful or fatal.

Response:
IF ON SKIN: Wash with plenty of soap and water. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell. If skin irritation or rash occurs: Get medical advice/attention.
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Wash contaminated clothing before reuse.

Storage:
Store in a well-ventilated place. Keep container tightly closed. Store locked up. Protect from sunlight. Do not expose to temperatures exceeding 50 °C/ 122 °F.

Disposal:
Dispose of contents/container to an approved waste disposal plant.

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>white mineral oil, petroleum</td>
<td>8042-47-5</td>
<td>30 - 60</td>
</tr>
<tr>
<td>distillates (petroleum), hydrotreated light</td>
<td>64742-47-8</td>
<td>10 - 30</td>
</tr>
<tr>
<td>Aliphatic hydrocarbons</td>
<td>106-97-8</td>
<td>10 - 30</td>
</tr>
<tr>
<td>terpenes and terpenoids, sweet orange-oil propane</td>
<td>68647-72-3</td>
<td>5 - 10</td>
</tr>
<tr>
<td>propane</td>
<td>74-98-6</td>
<td>5 - 10</td>
</tr>
</tbody>
</table>

SECTION 4. FIRST AID MEASURES

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

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.

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

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

Protection of first-aiders:
If potential for exposure exists refer to Section 8 for specific personal protective equipment.

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:
Pressurized container: May burst if heated. Flammable aerosols

Hazardous combustion products:
Decomposition products may include the following materials:
Carbon oxides
Nitrogen oxides (NOx)
Sulfur oxides
Oxides of phosphorus

Special protective equipment:
Use personal protective equipment.

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for fire-fighters

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

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

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. Contents under pressure. Do not puncture. Wash hands thoroughly after handling.


Storage temperature: 0 °C to 40 °C

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

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>white mineral oil, petroleum</td>
<td>8042-47-5</td>
<td>TWA (Mist)</td>
<td>5 mg/m3</td>
<td>NIOSH REL</td>
</tr>
<tr>
<td></td>
<td></td>
<td>STEL (Mist)</td>
<td>10 mg/m3</td>
<td>NIOSH REL</td>
</tr>
<tr>
<td></td>
<td></td>
<td>TWA (Mist)</td>
<td>5 mg/m3</td>
<td>OSHA Z1</td>
</tr>
<tr>
<td>distillates (petroleum), hydrotreated light</td>
<td>64742-47-8</td>
<td>TWA</td>
<td>500 ppm</td>
<td>OSHA Z1</td>
</tr>
<tr>
<td></td>
<td></td>
<td>TWA</td>
<td>2,000 mg/m3</td>
<td></td>
</tr>
<tr>
<td>Aliphatic hydrocarbons</td>
<td>106-97-8</td>
<td>TWA</td>
<td>800 ppm</td>
<td>NIOSH REL</td>
</tr>
<tr>
<td></td>
<td></td>
<td>TWA</td>
<td>1,900 mg/m3</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>TWA</td>
<td>1,000 ppm</td>
<td>ACGIH</td>
</tr>
<tr>
<td>propane</td>
<td>74-98-6</td>
<td>TWA</td>
<td>1,000 ppm</td>
<td>ACGIH</td>
</tr>
<tr>
<td></td>
<td></td>
<td>TWA</td>
<td>1,800 mg/m3</td>
<td>NIOSH REL</td>
</tr>
<tr>
<td></td>
<td></td>
<td>TWA</td>
<td>1,800 mg/m3</td>
<td>OSHA Z1</td>
</tr>
</tbody>
</table>

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

**Personal protective equipment**

**Eye protection**: No special protective equipment required.

**Hand protection**: 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.

**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.

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**SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

**Appearance**: aerosol

**Color**: white

**Odor**: Floral

**pH**: not applicable

**Flash point**: not applicable, Sustains combustion

**Odor Threshold**: no data available

**Melting point/freezing point**: no data available

**Initial boiling point and boiling range**: < 35 °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**: 0.84 - 0.86

**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
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Molecular weight : no data available
VOC : no data available
Heat of combustion : 10.65 kJ/g

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
Eye contact
Skin contact

Potential Health Effects

Eyes : Health injuries are not known or expected under normal use.
Skin : May cause allergic skin reaction.
Ingestion : Health injuries are not known or expected under normal use.
Inhalation : Inhalation may cause central nervous system effects. Intentional misuse by deliberate inhalation may be harmful or fatal.
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 : Redness, Irritation, Allergic reactions
Ingestion : No symptoms known or expected.
Inhalation : Dizziness, Drowsiness

Toxicity

Acute oral toxicity : no data available
Acute inhalation toxicity : no data available
Acute dermal toxicity : no data available
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Skin corrosion/irritation: no data available
Serious eye damage/eye irritation: no data available
Respiratory or skin sensitization: no data available
Carcinogenicity
IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
OSHA: No ingredient of this product present at levels greater than or equal to 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 oral toxicity: white mineral oil, petroleum
LD50 rat: > 5,000 mg/kg
distillates (petroleum), hydrotreated light
LD50 rat: > 5,000 mg/kg

Ingredients
Acute inhalation toxicity: Aliphatic hydrocarbons
4 h LC50 rat: 280000 ppm

SECTION 12. ECOLOGICAL INFORMATION
Ecotoxicity
Environmental Effects: Toxic 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: white mineral oil, petroleum
96 h LC50 Fish: > 100 mg/l
distillates (petroleum), hydrotreated light
96 h LC50: > 1,000 mg/l
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Aliphatic hydrocarbons
96 h LC50 Fish: 22.03 mg/l

Ingredients
Toxicity to daphnia and other aquatic invertebrates: distillates (petroleum), hydrotreated light
72 h EC50: > 1,000 mg/l

Ingredients
Toxicity to algae: distillates (petroleum), hydrotreated light
48 h EC50: > 1,000 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)
UN number: 1950
Description of the goods: Aerosols
Class: 2.1
Environmentally hazardous: no

Sea transport (IMDG/IMO)
UN number: 1950
Description of the goods: AEROSOLS
Class: 2.1
Marine pollutant: no

SECTION 15. REGULATORY INFORMATION
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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:
- Fire Hazard
- Acute Health Hazard
- Sudden Release of Pressure 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
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:

1907/2006 (EU):
not determined

Switzerland. New notified substances and declared preparations:
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):
On the inventory, or in compliance with the inventory

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):
On the inventory, or in compliance with the inventory

Philippines Inventory of Chemicals and Chemical Substances (PICCS):
On the inventory, or in compliance with the inventory

China. Inventory of Existing Chemical Substances in China (IECSC):
On the inventory, or in compliance with the inventory
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SECTION 16. OTHER INFORMATION

NFPA:  
- Flammability: 3
- Health: 2
- Instability: 0

HMIS III:  
- HEALTH: 2*
- FLAMMABILITY: 3
- PHYSICAL HAZARD: 2

Issuing date: 06/02/2014
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.