SAFETY DATA SHEET
TRI-STAR SO FRESH

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : TRI-STAR SO FRESH
Other means of identification : Not applicable
Recommended use : Laundry softener
Restrictions on use : Reserved for industrial and professional use.
Product dilution information : 0.03 % - 0.05 %
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 : 01/14/2016

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification
Product AS SOLD
Not a hazardous substance or mixture.

Product AT USE DILUTION
Not a hazardous substance or mixture.

GHS Label element

Product AS SOLD
Precautionary Statements : Prevention:
Wash hands thoroughly after handling.
Response:
Get medical advice/ attention if you feel unwell.
Storage:
Store in accordance with local regulations.

Product AT USE DILUTION
Precautionary Statements : Prevention:
Wash hands thoroughly after handling.
Response:
Get medical advice/ attention if you feel unwell.
Storage:
Store in accordance with local regulations.

Product AS SOLD
Other hazards : None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Product AS SOLD
Pure substance/mixture : Mixture
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<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS-No.</th>
<th>Concentration (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dialkyl(dimethyl)-ammoniumchlorides</td>
<td>61789-80-8</td>
<td>1 - 5</td>
</tr>
<tr>
<td>Propan-2-ol</td>
<td>67-63-0</td>
<td>1 - 5</td>
</tr>
</tbody>
</table>

**Product AT USE DILUTION**

No hazardous ingredients

**SECTION 4. FIRST AID MEASURES**

**Product AS SOLD**

- **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.
- **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.

**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**: Get medical attention if symptoms occur.

**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)
  - Sulfur oxides
  - Oxides of phosphorus
- **Special protective equipment for fire-fighters**: Use personal protective equipment.
- **Specific extinguishing**: Fire residues and contaminated fire extinguishing water must be
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methods disposed of in accordance with local regulations.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Product AS SOLD
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.

Product AT USE DILUTION
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

Product AS SOLD
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

Product AT USE DILUTION
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.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Product AS SOLD
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>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>
</tbody>
</table>

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<table>
<thead>
<tr>
<th></th>
<th>STEL</th>
<th>500 ppm 1,225 mg/m³</th>
<th>NIOSH REL</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>TWA</td>
<td>400 ppm 980 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**: Wash hands before breaks and immediately after handling the product.

**SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

<table>
<thead>
<tr>
<th></th>
<th><strong>Product AS SOLD</strong></th>
<th><strong>Product AT USE DILUTION</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>liquid</td>
<td>liquid</td>
</tr>
<tr>
<td>Color</td>
<td>opaque, green</td>
<td>colorless</td>
</tr>
<tr>
<td>Odor</td>
<td>Perfumes, fragrances</td>
<td>Perfumes, fragrances</td>
</tr>
<tr>
<td>pH</td>
<td>5.0 - 9.0, 100 %</td>
<td>5.5 - 9.0</td>
</tr>
<tr>
<td>Flash point</td>
<td>Not applicable, Does not sustain combustion.</td>
<td></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>&gt; 100 °C</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>
</tbody>
</table>
Relative vapor density: No data available
Relative density: 0.985
Water solubility: partly 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: 76.279 mm²/s (40 °C)
Explosive properties: No data available
Oxidizing properties: No data available
Molecular weight: No data available
VOC: No data available

SECTION 10. STABILITY AND REACTIVITY

Product AS SOLD
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

Product AS SOLD
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.

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 | 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**

**Product AS SOLD**

| 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. |

**Product AT USE DILUTION**

| 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**

**Product AS SOLD**

| 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 skin irritation |
| Serious eye damage/eye irritation | No eye irritation |
| 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 | Dialkyldimethyl-ammoniumchlorides |
| 4 h LC50 Rat: > 45 mg/l |
SECTION 12. ECOLOGICAL INFORMATION

Product AS SOLD

Ecotoxicity

Environmental Effects: Harmful to aquatic life. Toxic to aquatic life with long lasting effects.

Product

Toxicity to fish: 96 h LC50: 16.7 mg/l
Toxicity to daphnia and other aquatic invertebrates: No data available
Toxicity to algae: No data available

Ingredients

Toxicity to daphnia and other aquatic invertebrates: Dialkylidimethyl-ammoniumchlorides
48 h EC50 Daphnia: 0.32 mg/l
propan-2-ol
LC50 Daphnia magna (Water flea): > 10,000 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

Product AS SOLD

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.

Product AT USE DILUTION

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.
SECTION 14. TRANSPORT INFORMATION

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)
UN number : 3082
Description of the goods : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (quaternary ammonium compound)
Class : 9
Packing group : III
Marine pollutant : yes

SECTION 15. REGULATORY INFORMATION

Product AS SOLD

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 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 :
not determined

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

Product AS SOLD
NFPA:

HMIS III:

Product AT USE DILUTION
NFPA:

HMIS III:

Issuing date : 01/14/2016

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

TRI-STAR SO FRESH

Version : 1.2
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.