Section 1. Chemical product and company identification

Product name: PANTASTIC
Recommended use and restrictions: Use only for the purpose on the product label.
Product dilution information: Up to 1.7 oz/10gals or 1.4 mL/L in water

Supplier's information: Ecolab Inc. Institutional Division
370 N. Wabasha Street
St. Paul, MN 55102
1-800-352-5326
Code: 916228
Date of issue: 27 Mar 2013
EMERGENCY HEALTH INFORMATION: 1-800-328-0026
Outside United States and Canada CALL 1-651-222-5352 (in USA)

Section 2. Hazards identification

GHS Classification: Product AS SOLD
- SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2B
- AQUATIC TOXICITY (ACUTE) - Category 3

GHS label elements
- Signal word: Warning
- Hazard statements: Causes eye irritation. Harmful to aquatic life.
- Precautionary statements: Prevention - Avoid release to the environment. Wash hands thoroughly after handling.
- Response - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical attention.
- Storage - No other specific measures identified.
- Disposal - See section 13 for waste disposal information.
- Other hazards - None known.
- Product AT USE DILUTION
  - Not classified.
  - No signal word.
  - No known significant effects or critical hazards.
  - Wash thoroughly after handling.
  - Get medical attention if symptoms appear.
  - No other specific measures identified.
  - See section 13 for waste disposal information.
  - None known.

Section 3. Composition/information on ingredients

Substance/mixture: Mixture
Product AS SOLD
Hazardous ingredients

<table>
<thead>
<tr>
<th>Hazardous ingredients</th>
<th>Concentration Range (%)</th>
<th>CAS number</th>
</tr>
</thead>
</table>

Page: 1/6
Section 3. Composition/information on ingredients

SODIUM C14-16 OLEFIN SULFONATE | 1 - 5 | 68439-57-6
SODIUM CHLORIDE | 1 - 5 | 7647-14-5
poly(oxy-1,2-ethanediyl), .alpha.-sulfo-.omega.-hydroxy-, c10-16-alkyl ethers, sodium salts | 1 - 5 | 68585-34-2
COCAMINE OXIDE | 1 - 5 | 61788-90-7

Product AT USE DILUTION
Within the present knowledge of the supplier, this product does not contain any hazardous ingredients in quantities requiring reporting, in accordance with local regulations.

Section 4. First aid measures

<table>
<thead>
<tr>
<th>Product AS SOLD</th>
<th>Product AT USE DILUTION</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Eye contact</strong></td>
<td>Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation persists.</td>
</tr>
<tr>
<td><strong>Skin contact</strong></td>
<td>No known effect after skin contact. Rinse with water for a few minutes.</td>
</tr>
<tr>
<td><strong>Inhalation</strong></td>
<td>No special measures required. Treat symptomatically.</td>
</tr>
<tr>
<td><strong>Ingestion</strong></td>
<td>Get medical attention if symptoms occur.</td>
</tr>
</tbody>
</table>

Protection of first-aiders: No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

Notes to physician: Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

See toxicological information (section 11)

Section 5. Fire-fighting measures

<table>
<thead>
<tr>
<th>Product AS SOLD</th>
<th>Product AT USE DILUTION</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Suitable fire extinguishing media</strong></td>
<td>Use water spray, fog or foam.</td>
</tr>
<tr>
<td><strong>Specific hazards arising from the chemical</strong></td>
<td>In a fire or if heated, a pressure increase will occur and the container may burst. This material is harmful to aquatic life. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.</td>
</tr>
<tr>
<td><strong>Hazardous thermal decomposition products</strong></td>
<td>Decomposition products may include the following materials: halogenated compounds metal oxide/oxides</td>
</tr>
<tr>
<td><strong>Specific fire-fighting methods</strong></td>
<td>Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.</td>
</tr>
<tr>
<td><strong>Special protective equipment for fire-fighters</strong></td>
<td>Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.</td>
</tr>
</tbody>
</table>

Environmental precautions:
Avoid contact of large amounts of spilled material and runoff with soil and surface waterways.

Section 6. Accidental release measures

<table>
<thead>
<tr>
<th>Product AS SOLD</th>
<th>Product AT USE DILUTION</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Personal precautions</strong></td>
<td>Use personal protective equipment as required.</td>
</tr>
<tr>
<td><strong>Environmental precautions</strong></td>
<td>Use personal protective equipment as required. Avoid contact of large amounts of spilled material and runoff with soil and surface waterways.</td>
</tr>
</tbody>
</table>
Section 6. Accidental release measures

Methods for cleaning up:
- Use a water rinse for final clean-up.

Section 7. Handling and storage

Handling:
- Avoid contact with eyes, skin and clothing. Wash thoroughly after handling.

Storage:
- Keep out of reach of children. Keep container tightly closed.
- Store between the following temperatures: 0 and 50°C

Section 8. Exposure controls/personal protection

Control parameters

<table>
<thead>
<tr>
<th>Ingredient name</th>
<th>Exposure limits</th>
</tr>
</thead>
<tbody>
<tr>
<td>None.</td>
<td></td>
</tr>
</tbody>
</table>

Appropriate engineering controls:
- Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

Personal protection

Eye protection:
- No protective equipment is needed under normal use conditions.

Hand protection:
- No protective equipment is needed under normal use conditions.

Skin protection:
- No protective equipment is needed under normal use conditions.

Respiratory protection:
- A respirator is not needed under normal and intended conditions of product use.

Hygiene measures:
- Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing.

Section 9. Physical and chemical properties

<table>
<thead>
<tr>
<th>Physical state</th>
<th>Product AS SOLD</th>
<th>Product AT USE DILUTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical state</td>
<td>Liquid.</td>
<td>Liquid.</td>
</tr>
<tr>
<td>Color</td>
<td>Blue [Dark]</td>
<td>Blue [Light]</td>
</tr>
<tr>
<td>Odor</td>
<td>Floral</td>
<td>Floral</td>
</tr>
<tr>
<td>pH</td>
<td>7.5 to 10 (100%)</td>
<td>6.64 to 7.15</td>
</tr>
<tr>
<td>Flammability</td>
<td>Not available.</td>
<td>Not available.</td>
</tr>
<tr>
<td>Melting point</td>
<td>Not available.</td>
<td>Not available.</td>
</tr>
<tr>
<td>Boiling point</td>
<td>&gt;100°C (&gt;212°F)</td>
<td>&gt;100°C</td>
</tr>
<tr>
<td>Evaporation</td>
<td>Not available.</td>
<td>Not available.</td>
</tr>
<tr>
<td>Evaporation</td>
<td>rate (butyl acetate = 1)</td>
<td>Not available.</td>
</tr>
<tr>
<td>Vapor pressure</td>
<td>Not available.</td>
<td>Not available.</td>
</tr>
</tbody>
</table>
Section 9. Physical and chemical properties

- **Vapor density**: Not available.
- **Relative density**: 1.028 to 1.048 (Water = 1)
- **Solubility**: Easily soluble in the following materials: cold water and hot water.
- **Partition coefficient**: Not available.
- **n-octanol/water**
- **Auto-ignition temperature**: Not available.
- **Decomposition temperature**: Not available.
- **Odor threshold**: Not available.
- **Viscosity**: Not available.

Section 10. Stability and reactivity

**Product AS SOLD**

- **Stability**: The product is stable.
- **Possibility of hazardous reactions**: Under normal conditions of storage and use, hazardous reactions will not occur.
- **Conditions to avoid**: No specific data.
- **Materials to avoid**: Not available.
- **Hazardous decomposition products**: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Section 11. Toxicological information

**Route of exposure**: Skin contact, Eye contact, Inhalation, Ingestion

<table>
<thead>
<tr>
<th>Route of exposure</th>
<th>Product AS SOLD</th>
<th>Product AT USE DILUTION</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Eye contact</strong></td>
<td>Adverse symptoms may include the following: irritation, watering, redness</td>
<td>No specific data.</td>
</tr>
<tr>
<td><strong>Skin contact</strong></td>
<td>No specific data.</td>
<td>No specific data.</td>
</tr>
<tr>
<td><strong>Inhalation</strong></td>
<td>No specific data.</td>
<td>No specific data.</td>
</tr>
<tr>
<td><strong>Ingestion</strong></td>
<td>No specific data.</td>
<td>No specific data.</td>
</tr>
<tr>
<td><strong>Acute toxicity</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Eye contact</strong></td>
<td>Causes eye irritation.</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td><strong>Skin contact</strong></td>
<td>No known significant effects or critical hazards.</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td><strong>Inhalation</strong></td>
<td>No known significant effects or critical hazards.</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td><strong>Ingestion</strong></td>
<td>No known significant effects or critical hazards.</td>
<td>No known significant effects or critical hazards.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Toxicity data</th>
<th>Result</th>
<th>Species</th>
<th>Dose</th>
</tr>
</thead>
</table>
Section 11. Toxicological information

sulfonic acids, c14-16-alkane hydroxy and c14-16-alkene, sodium salts
LD50 Dermal Rabbit 6300 mg/kg
LD50 Oral Rat 3983 mg/kg
LD50 Oral Rat >10000 mg/kg
LD50 Oral Rat 3000 mg/kg
LD50 Oral Rat >2000 mg/kg
LD50 Oral Rat >2500 mg/kg
LD50 Oral Rat >2174 mg/kg
LD50 Oral Rat 846 mg/kg

sodium chloride
LD50 Dermal Rabbit >10000 mg/kg
LD50 Oral Rat 3983 mg/kg
LD50 Oral Rat >10.5 mg/l
LD50 Oral Rat >2174 mg/kg
LD50 Oral Rat 846 mg/kg

poly(oxy-1,2-ethanediyl), .alpha.-sulfo-.omega.-hydroxy-, c10-16-alkyl ethers, sodium salts
LD50 Dermal Rabbit 3000 mg/kg
LD50 Dermal Rat >10000 mg/kg
LD50 Dermal Rat 3000 mg/kg
LD50 Dermal Rat >2000 mg/kg

amines, coco alkylidimethyl, n-oxides
LD50 Dermal Rat >2174 mg/kg
LD50 Oral Rat 846 mg/kg

Chronic toxicity
Carcinogenicity : No known significant effects or critical hazards.
Mutagenicity : No known significant effects or critical hazards.
Teratogenicity : No known significant effects or critical hazards.
Developmental effects : No known significant effects or critical hazards.
Fertility effects : No known significant effects or critical hazards.

Section 12. Ecological information

Product AS SOLD

Ecotoxicity : This material is harmful to aquatic life.

Aquatic and terrestrial toxicity

<table>
<thead>
<tr>
<th>Product/ingredient name</th>
<th>Result</th>
<th>Species</th>
<th>Exposure</th>
</tr>
</thead>
<tbody>
<tr>
<td>sulfonic acids, c14-16-alkane hydroxy and c14-16-alkene, sodium salts</td>
<td>Acute LC50 4.2 mg/l</td>
<td>Fish</td>
<td>96 hours</td>
</tr>
<tr>
<td>sodium chloride</td>
<td>Acute LC50 5840 mg/l</td>
<td>Fish</td>
<td>96 hours</td>
</tr>
<tr>
<td>poly(oxy-1,2-ethanediyl), .alpha.-sulfo-.omega.-hydroxy-, c10-16-alkyl ethers, sodium salts</td>
<td>Acute LC50 28 mg/l</td>
<td>Fish</td>
<td>96 hours</td>
</tr>
<tr>
<td>amines, coco alkylidimethyl, n-oxides</td>
<td>Acute LC50 &lt;1 mg/l</td>
<td>Fish</td>
<td>96 hours</td>
</tr>
</tbody>
</table>

Other adverse effects : No known significant effects or critical hazards.

Section 13. Disposal considerations

Disposal methods
Product AS SOLD
: Diluted product can be flushed to sanitary sewer. Discard empty container in trash.
Product AT USE DILUTION
: Diluted product can be flushed to sanitary sewer. Discard empty container in trash.

Section 14. Transport information

Certain shipping modes or package sizes may have exceptions from the transport regulations. The classification provided may not reflect those exceptions and may not apply to all shipping modes or package sizes.

DOT
DOT Classification : Not regulated.

IMO/IMDG
IMO/IMDG Classification : Not regulated.

For transport in bulk, see shipping documents for specific transportation information.
Section 14. Transport information

Product AT USE DILUTION
Not intended for transport.

Section 15. Regulatory information

Product AS SOLD

**U.S. Federal regulations**

- **TSCA 8(b) inventory**: All components are listed or exempted.
- **SARA 302/304/311/312 extremely hazardous substances**: No listed substance
- **SARA 302/304 emergency planning and notification**: No listed substance

**SARA 313**

- **Product name**: No listed substance
- **CAS number**: No listed substance
- **Concentration**: No listed substance

**Form R - Reporting requirements**: No listed substance

**California Prop. 65**: No listed substance

Section 16. Other information

**Product AS SOLD**

- **Hazardous Material Information System (U.S.A.)**
  - **Health**: 1
  - **Flammability**: 0
  - **Physical hazards**: 0

- **National Fire Protection Association (U.S.A.)**
  - **Flammability**: 0
  - **Instability/Reactivity**: 0
  - **Special**: 0

- **Date of issue**: 27 Mar 2013
- **Prepared by**: Regulatory Affairs
  - 1-800-352-5326

**Product AT USE DILUTION**

- **Health**: 0
- **Flammability**: 0
- **Physical hazards**: 0

- **Instability/Reactivity**: 0
- **Special**: 0

**Notice to reader**

The above information is believed to be correct with respect to the formula used to manufacture the product in the country of origin. As data, standards, and regulations change, and conditions of use and handling are beyond our control, NO WARRANTY, EXPRESS OR IMPLIED, IS MADE AS TO THE COMPLETENESS OR CONTINUING ACCURACY OF THIS INFORMATION.