Section 1. Chemical product and company identification

<table>
<thead>
<tr>
<th>Trade name</th>
<th>FORMULA 1</th>
</tr>
</thead>
<tbody>
<tr>
<td>Product use</td>
<td>Laundry detergent</td>
</tr>
<tr>
<td>Supplier</td>
<td>Ecolab Inc. Institutional Division</td>
</tr>
<tr>
<td>Code</td>
<td>905160</td>
</tr>
<tr>
<td>Date of issue</td>
<td>22-October-2007</td>
</tr>
</tbody>
</table>

EMERGENCY HEALTH INFORMATION: 1-800-328-0026
Outside United States and Canada CALL 1-651-222-5352 (in USA)

Section 2. Composition, information on ingredients

<table>
<thead>
<tr>
<th>Name</th>
<th>CAS number</th>
<th>% by weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>triphosphoric acid, pentasodium salt</td>
<td>7758-29-4</td>
<td>23</td>
</tr>
<tr>
<td>alcohols, c12-16, ethoxylated</td>
<td>68551-12-2</td>
<td>20 - 50</td>
</tr>
<tr>
<td>sodium carbonate</td>
<td>497-19-8</td>
<td>5 - 20</td>
</tr>
<tr>
<td>2-aminoethanol</td>
<td>141-43-5</td>
<td>5 - 20</td>
</tr>
<tr>
<td>boric acid</td>
<td>10043-35-3</td>
<td>1 - 5</td>
</tr>
</tbody>
</table>

Section 3. Hazards identification

Physical state: Liquid. [slurry]

Emergency overview:

CAUSES SEVERE EYE AND SKIN IRRITATION. Untreated contact may cause severe irritation or chemical burns.

CAUSES RESPIRATORY TRACT IRRITATION.

MAY CAUSE ALLERGIC RESPIRATORY REACTION.

HARMFUL IF SWALLOWED.

Do not ingest. Do not get in eyes, on skin or on clothing. Do not breathe vapor or mist. Keep container closed. Wash thoroughly after handling.

Potential acute health effects:

Eyes: Severely irritating to eyes. Untreated contact may cause chemical burns.

Skin: Severely irritating to the skin. Untreated contact may cause severe irritation or chemical burns.

Inhalation: Irritating to respiratory system. May cause sensitization by inhalation.

Ingestion: Harmful if swallowed. May cause burns to mouth, throat and stomach.

See toxicological information (section 11)

Section 4. First aid measures

Eye contact: In case of contact, immediately flush eyes with cool running water. Remove contact lenses and continue flushing with plenty of water for at least 15 minutes. Get medical attention immediately.

Skin contact: In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Clean shoes thoroughly before reuse. Get medical attention immediately.

Inhalation: If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention immediately.

Ingestion: Rinse mouth; then drink one or two large glasses of water. Do not induce vomiting. Never give anything by mouth to an unconscious person. Get medical attention immediately.
Section 5. Fire fighting measures

Flash point: > 100°C
Product does not support combustion.

Fire-fighting media and instructions: Use an extinguishing agent suitable for the surrounding fire.

Dike liquid for later disposal.
No specific hazard.

Special protective equipment for fire-fighters:

Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Section 6. Accidental release measures

Personal precautions:
Ventilate area of leak or spill. Do not touch damaged containers or spilled material unless wearing appropriate protective equipment (Section 8). Stop leak if without risk. Do not allow to enter drains or watercourses.

Environmental precautions:
Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

Methods for cleaning up:
If emergency personnel are unavailable, contain spilled material. For small spills, add absorbent (soil may be used in the absence of other suitable materials), scoop up material and place in a sealable, liquid-proof container for disposal. For large spills, dike spilled material or otherwise contain material to ensure runoff does not reach a waterway. Place spilled material in an appropriate container for disposal.

Section 7. Handling and storage

Handling:
Do not ingest. Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Keep container closed. Wash thoroughly after handling.

Storage:
Keep out of the reach of children. Keep container tightly closed. Keep container in a cool, well-ventilated area.
Store between the following temperatures: 0 and 40°C

Section 8. Exposure controls, personal protection

Engineering measures:
Use only with adequate ventilation. If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. Provide eyewash and safety shower in area if contact or splash hazard exists.

Personal protection:

Eyes:
Due to the form and packaging of the product, no protective equipment is needed under normal use conditions.

Hands:
Due to the form and packaging of the product, no protective equipment is needed under normal use conditions.

Skin:
Due to the form and packaging of the product, no protective equipment is needed under normal use conditions.

Respiratory:
Due to the form and packaging of the product, no protective equipment is needed under normal use conditions.

Name: 2-aminoethanol

Exposure limits:

ACGIH TLV (United States, 1/2006).
STE: 15 mg/m³ 15 minute(s).
STE: 6 ppm 15 minute(s).
TWA: 7.5 mg/m³ 8 hour(s).
TWA: 3 ppm 8 hour(s).

OSHA PEL (United States, 11/2006).
TWA: 6 mg/m³ 8 hour(s).
TWA: 3 ppm 8 hour(s).

Name: boric acid

Exposure limits:

ACGIH TLV (United States, 1/2006).
STE: 6 mg/m³ 15 minute(s).
Subtilisin

Section 9. Physical and chemical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical state</td>
<td>Liquid. [slurry]</td>
</tr>
<tr>
<td>Color</td>
<td>Tan. [Light]</td>
</tr>
<tr>
<td>Odor</td>
<td>Fragrance-like</td>
</tr>
<tr>
<td>pH</td>
<td>10 to 11 [Conc. (% w/w): 100%]</td>
</tr>
<tr>
<td>Boiling/condensation point</td>
<td>&gt;100°C (&gt;212°F)</td>
</tr>
<tr>
<td>Specific gravity</td>
<td>1.2 to 1.6</td>
</tr>
<tr>
<td>Dispersibility properties</td>
<td>Partially dispersible in cold water, hot water.</td>
</tr>
<tr>
<td>Solubility</td>
<td>Partially soluble in cold water, hot water.</td>
</tr>
</tbody>
</table>

Section 10. Stability and reactivity

Stability: The product is stable.
Reactivity: Reactive with metals, acids. Slightly reactive to reactive with organic materials.

Section 11. Toxicological information

Potential acute health effects

- **Eyes**: Severely irritating to eyes. Untreated contact may cause chemical burns.
- **Skin**: Severely irritating to the skin. Untreated contact may cause severe irritation or chemical burns.
- **Inhalation**: Irritating to respiratory system. May cause sensitization by inhalation.
- **Ingestion**: Harmful if swallowed. May cause burns to mouth, throat and stomach.

Potential chronic health effects

- **Chronic effects on humans**: Classified Reproductive system/toxin/female, Reproductive system/toxin/male [POSSIBLE] [boric acid]. Contains material which causes damage to the following organs: kidneys, liver, upper respiratory tract, central nervous system (CNS).

Section 12. Ecological information

The generation of waste should be avoided or minimized wherever possible. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements.

Consult your local or regional authorities.

Section 13. Disposal considerations

Waste disposal: The generation of waste should be avoided or minimized wherever possible. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements.

Section 14. Transport information

<table>
<thead>
<tr>
<th>Regulatory information</th>
<th>UN number</th>
<th>Proper shipping name</th>
<th>Class</th>
<th>Packing group</th>
<th>Additional information</th>
</tr>
</thead>
<tbody>
<tr>
<td>DOT Classification</td>
<td>UN1759</td>
<td>Corrosive solids, n.o.s. (Ethanolamine)</td>
<td>8</td>
<td>III</td>
<td>Not available.</td>
</tr>
</tbody>
</table>

APPLIES ONLY DURING ROAD TRANSPORT
Any variation of the shipping description based on the packaging is not addressed.
Section 15. Regulatory information

**HCS Classification**
- Irritating material
- Sensitizing material
- Target organ effects

**U.S. Federal regulations**
- SARA 302/304/311/312 extremely hazardous substances: No products were found.
- SARA 302/304 emergency planning and notification: No products were found.

**TSCA 8(b) inventory**
- All materials are listed or exempt.

**California Prop. 65**
- No products were found.

**Section 16. Other information**

<table>
<thead>
<tr>
<th>Hazardous Material Information System (U.S.A.)</th>
<th>Health</th>
<th>Flammability</th>
<th>Physical hazards</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>2</td>
<td>0</td>
<td>0</td>
</tr>
</tbody>
</table>

**Date of issue**

**Responsible name**
- Regulatory Affairs

**Date of previous issue**
- 29-April-2005.

**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.