Section 1. Chemical product and company identification

<table>
<thead>
<tr>
<th>Trade name</th>
<th>LIQUID FORCE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Product use</td>
<td>Laundry detergent</td>
</tr>
<tr>
<td>Supplier</td>
<td>Ecolab Inc. Textile Care Division</td>
</tr>
<tr>
<td>Code</td>
<td>911248-02</td>
</tr>
<tr>
<td>Date of issue</td>
<td>17-August-2005</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>poly(oxy-1,2-ethanediyl), .alpha.-(nonylphenyl)-.omega.-hydroxy-</td>
<td>9016-45-9</td>
<td>&gt;50</td>
</tr>
<tr>
<td>dipropylene glycol methyl ether</td>
<td>34590-94-8</td>
<td>5 - 20</td>
</tr>
</tbody>
</table>

Section 3. Hazards identification

Physical state: Liquid. (Liquid.)

Emergency overview:

WARNING!

CAUSES EYE IRRITATION.
MAY CAUSE SKIN IRRITATION.
COMBUSTIBLE LIQUID AND VAPOR.
VAPOR MAY CAUSE FIRE.

Avoid contact with skin and clothing. Keep away from heat, sparks and flame. Keep container closed. Use only with adequate ventilation. Wash thoroughly after handling.

Potential acute health effects

Eyes: Irritating to eyes.
Skin: Moderately irritating to the skin.
Inhalation: Slightly irritating to the respiratory system.
Ingestion: No known significant effects or critical hazards.

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 if irritation persists.

Skin contact: Wash with soap and water. Get medical attention if irritation occurs. Wash clothing before reuse.

Inhalation: If inhaled, remove to fresh air.

Ingestion: Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If large quantities of this material are swallowed, call a physician immediately.

Section 5. Fire fighting measures

Flash point: 65.5556 °C (Closed cup)

Fire fighting media and instructions:

Dike area of fire to prevent product run-off.
Combustible liquid and vapor. May burn, but does not ignite readily. Under high temperatures or under moderate heating might release vapor in sufficient quantities to produce hazardous atmospheres with air.
Section 6. Accidental release measures

**Personal precautions**: Fire fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full facepiece operated in positive pressure mode.

**Environmental precautions**: Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. If emergency personnel are unavailable, contain spilled material. For small spills add absorbent (soil may be used in the absence of other suitable materials) and use a non-sparking or explosion proof means to transfer material to a sealed, appropriate 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.

**Methods for cleaning up**: 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. Prevent entry into sewers, water courses, basements or confined areas.

Section 7. Handling and storage

**Handling**: Avoid contact with eyes, skin and clothing. Keep away from heat, sparks and flame. To avoid fire, minimize ignition sources. Wash thoroughly after handling.

**Storage**: Keep out of the reach of children. Store in a segregated and approved area. Keep container in a cool, well-ventilated area. Keep container tightly closed and sealed until ready for use. Avoid all possible sources of ignition (spark or flame). Do not store above 50°C.

Section 8. Exposure Controls, Personal Protection

**Engineering controls**: Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective occupational exposure limits.

**Personal protection**: Use safety eyewear designed to protect against splash of liquids. For prolonged or repeated handling, use Impervious gloves. No protective equipment is needed under normal use conditions.

**Exposure limits**

- **ACGIH TLV (United States, 1/2004). Skin**
  - STEL: 909 mg/m³ 15 minute(s). Form: All forms
  - STEL: 150 ppm 15 minute(s). Form: All forms
  - TWA: 606 mg/m³ 8 hour(s). Form: All forms
  - TWA: 100 ppm 8 hour(s). Form: All forms

- **OSHA PEL (United States, 8/1997). Skin**
  - TWA: 600 mg/m³ 8 hour(s). Form: All forms
  - TWA: 100 ppm 8 hour(s). Form: All forms

**Name**: dipropylene glycol methyl ether

**Physical and chemical properties**

- **Physical state**: Liquid. (Liquid.)
- **Color**: Clear.
- **Odor**: Faint Odor
- **pH**: 6.7 (100%)
- **Boiling/condensation point**: >100 °C
- **Specific gravity**: 1.058 (Water = 1)
- **Viscosity**: Dynamic: 250 cP
- **Solubility**: Soluble in hot water. Partially soluble in cold water.
Section 10. Stability and reactivity

Stability: The product is stable.

Section 11. Toxicological information

Potential acute health effects
- Eyes: Irritating to eyes.
- Skin: Moderately irritating to the skin.
- Inhalation: Slightly irritating to the respiratory system.
- Ingestion: No known significant effects or critical hazards.

Potential chronic health effects
- Chronic effects on humans: Contains material which causes damage to the following organs: upper respiratory tract, central nervous system (CNS), eye, lens or cornea.

Section 12. Ecological information

Products of degradation: These products are carbon oxides (CO, CO₂) and water.

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.

Consult your local or regional authorities.

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>Not regulated.</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td></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: Combustible liquid
- Irritating material
- Target organ effects

U.S. Federal regulations: SARA 302/304/311/312 extremely hazardous substances: None.
- SARA 302/304 emergency planning and notification: None.

TSCA 8(b) inventory: All materials are listed or exempt.
- California prop. 65: No products were found.

Section 16. Other information

Hazardous Material Information System (U.S.A.):
- Health: 2
- Fire hazard: 2
- Reactivity: 0
- Personal protection: A

Date of issue: 17-August-2005.
Responsible name: Regulatory Affairs
Date of previous issue: No Previous Validation.
Notice to reader: Regulatory Affairs
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