MATERIAL SAFETY DATA SHEET

SECTION I: PRODUCT IDENTIFICATION AND USE

Product Name: Automatic Dishwasher Detergent Concentrated Pacs

Manufacturer’s Name: Seventh Generation, Inc.  
Address: 60 Lake Street, Burlington, VT 05401-5281

Emergency Telephone Number: 800-456-1191  
Product Use: Automatic Dishwashing

SECTION II: HEALTH HAZARD DATA

Emergency Overview: Contact with eyes may cause irritation.

Potential Health Effects:

- Eyes- Ocular Irritant
- Skin- Non-Irritant
- Inhalation- Unknown
- Ingestion- Toxic

SECTION III: PRODUCT INGREDIENTS

<table>
<thead>
<tr>
<th>Ingredient Name</th>
<th>Concentration (%)</th>
<th>CAS Number</th>
<th>Exposure Limits</th>
<th>Toxicity Data LD₅₀(oral, rat)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Citric Acid</td>
<td>10-100</td>
<td>77-92-9</td>
<td>NAV</td>
<td>3,000 mg/kg</td>
</tr>
<tr>
<td>Sodium Carbonate</td>
<td>10-100</td>
<td>497-19-8</td>
<td>NAV</td>
<td>4,090 mg/kg</td>
</tr>
<tr>
<td>Sodium Silicate</td>
<td>10-100</td>
<td>1344-09-8</td>
<td>NAV</td>
<td>1,960 mg/kg</td>
</tr>
<tr>
<td>Sodium Bicarbonate</td>
<td>1-10</td>
<td>144-55-8</td>
<td>NAV</td>
<td>4,220 mg/kg</td>
</tr>
<tr>
<td>Sodium Magnesium Silicate</td>
<td>1-10</td>
<td>53320-86-8</td>
<td>NAV</td>
<td>8,000 mg/kg</td>
</tr>
<tr>
<td>Polyaspartic Acid</td>
<td>1-10</td>
<td>617-45-8</td>
<td>NAV</td>
<td>&gt;2,000 mg/kg</td>
</tr>
<tr>
<td>Sodium Percarbonate</td>
<td>1-10</td>
<td>15630-89-4</td>
<td>NAV</td>
<td>2,400 mg/kg</td>
</tr>
<tr>
<td>PPG-10-Laureth-7</td>
<td>1-10</td>
<td>NAP</td>
<td>NAV</td>
<td>N/A</td>
</tr>
<tr>
<td>Sodium Sulfate</td>
<td>1-10</td>
<td>7757-82-6</td>
<td>NAV</td>
<td>1,288 mg/kg</td>
</tr>
<tr>
<td>Sodium Citrate</td>
<td>1-10</td>
<td>68-04-2</td>
<td>NAV</td>
<td>3,000 mg/kg</td>
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<tr>
<td>Protease</td>
<td>1-10</td>
<td>9014-01-1</td>
<td>NAV</td>
<td>&gt;5,000 mg/kg</td>
</tr>
<tr>
<td>Amylase</td>
<td>0.1-1</td>
<td>9000-90-2</td>
<td>NAV</td>
<td>&gt;2,000 mg/kg</td>
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<tr>
<td>Sodium Aluminosilicate</td>
<td>0.1-1</td>
<td>1318-02-1</td>
<td>NAV</td>
<td>27,000 mg/kg</td>
</tr>
</tbody>
</table>

SECTION IV: FIRST AID MEASURES

First Aid Procedures:

- Eyes- Flush eyes with water immediately after contact. Call a physician if irritation persists.
- Skin- Not Applicable
- Inhalation- Leave the dusty area and seek fresh air exposure. Call a physician if irritation persists.
- Ingestion- Do not induce vomiting. Drink 4-8 ounces of water or milk immediately. Contact a poison control center or physician.

SECTION V: FIRE FIGHTING MEASURES

Flash Point (°C) and Method: Not Flammable

Extinguishing Media: Not Applicable

SECTION VI: ACCIDENTAL RELEASE MEASURES

Spill and Leak Precautions: Wet the spill and clean up with a paper towel.

SECTION VII: HANDLING, DISPOSAL & STORAGE

Handling Procedures and Equipment: Wear PPE when handling powder or dust.

Waste Disposal: Any disposal practice must be in compliance with local, state, and federal laws and regulations.

Storage Procedures: KEEP OUT OF REACH OF CHILDREN & PETS. Store in a cool, dry place away from excess heat.

Personal Protective Equipment: 3M 8233 mask or equivalent

Engineering Controls: Local Exhaust Ventilation

SECTION VIII: PHYSICAL & CHEMICAL PROPERTIES

Physical State: Solid

Color & Appearance: Clear pouch filled with white granular powder

pH: 7-8

Specific Gravity: Not Applicable
**Automatic Dishwasher Detergent Concentrated Pacs**

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
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</thead>
<tbody>
<tr>
<td>Solubility in Water</td>
<td>Miscible</td>
</tr>
<tr>
<td>Percent Volatiles</td>
<td>≤0.5%</td>
</tr>
<tr>
<td>Density (g/cc)</td>
<td>0.8</td>
</tr>
<tr>
<td>Odor Threshold Limit</td>
<td>Not Applicable</td>
</tr>
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</table>

**SECTION IX: STABILITY & REACTIVITY**

- **Chemical Stability**: ✗ Stable ☐ Unstable under the following conditions:
- **Incompatible Materials**: None Known
- **Hazardous Decomposition Products**: None Known
- **Possibility of Hazardous Reactions**: None Known

**SECTION X: TOXICOLOGICAL INFORMATION**

- **Route(s) of Entry**:
  - ✗ Skin Contact
  - ☐ Skin Absorption
  - ✗ Eye Contact
  - ☐ Inhalation, Acute
  - ☐ Inhalation, Chronic
  - ☐ Ingestion
- **Effects of Acute Exposure to Product**: Acute exposure may result in eye irritation; however, no permanent damage is expected.
- **Effects of Chronic Exposure to Product**: None Known
- **LD₅₀ of Product**: <5,000 mg/kg
- **Chronic Toxicities**: ☐ Carcinogenic ☐ Reproductive Toxin ☐ Teratogenic ☐ Mutagenic ✗ None

**SECTION XI: ECOLOGICAL INFORMATION**

- **Ecotoxicity**: LC₅₀ of Product: >100 mg/L
- **Environmental Fate**: This product is biodegradable.

**SECTION XII: PREPARATION INFORMATION**

- **Additional Information**: The information in this MSDS relates only to the specific material designated herein and does **not** relate to use in combination with any other material or any process.

**Sources Used**: General MSDS chemical references

<table>
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<tr>
<th>Prepared by</th>
<th>Telephone Number</th>
<th>Issue Date</th>
</tr>
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<tbody>
<tr>
<td>Seventh Generation, Inc.</td>
<td>800-456-1191</td>
<td>July 14, 2010</td>
</tr>
</tbody>
</table>

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