1. PRODUCT AND COMPANY IDENTIFICATION

Product name: Swisher Envy HE  
Product code: 42097-1  
Reference number(s): 42097-2.5 / 42097-5  
Recommended Use: Low Sudsing High Efficiency Laundry Detergent  
Distributor: Swisher Hygiene Inc.  
4725 Piedmont Row Drive,  
Suite 400,  
Charlotte, NC 28210  
Chemical Emergency Phone Number: 800-424-9300 (Chemtrec)  
Company Emergency Phone Number: 800-444-4138

2. HAZARDS IDENTIFICATION

Emergency Overview: The product contains no substances which at their given concentration, are considered to be hazardous to health.

<table>
<thead>
<tr>
<th>Potential Health Effects</th>
<th>Acute toxicity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Eyes</td>
<td>Contact with eyes may cause irritation or burns.</td>
</tr>
<tr>
<td>Skin</td>
<td>Contact with skin may cause defatting and irritation.</td>
</tr>
<tr>
<td>Inhalation</td>
<td>No known effect based on information supplied</td>
</tr>
<tr>
<td>Ingestion</td>
<td>No known effect based on information supplied</td>
</tr>
</tbody>
</table>

Chronic Effects: No known effect based on information supplied

Aggravated Medical Conditions: None known.

Environmental hazard: See Section 12 for additional Ecological Information

3. COMPOSITION/INFORMATION ON INGREDIENTS

This material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS-No</th>
<th>Weight %</th>
</tr>
</thead>
<tbody>
<tr>
<td>Potassium hydroxide</td>
<td>1310-58-3</td>
<td>&lt; 1</td>
</tr>
<tr>
<td>New Jersey Trade Secret</td>
<td>39210900-5031P</td>
<td>&lt; 20</td>
</tr>
</tbody>
</table>
4. FIRST AID MEASURES

**Eye contact**
Wash with water for 15 minutes. See physician if irritation persists.

**Skin contact**
Wash with cool water and avoid proplonged contact.

**Inhalation**
Move to fresh air

**Ingestion**
Give milk or water to dilute material; DO NOT induce vomiting. CALL A PHYSICIAN OR POISON CONTROL CENTER IMMEDIATELY. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON.

**Notes to physician**
Treat symptomatically

5. FIRE-FIGHTING MEASURES

**Flammable Properties**
N/A

**Flash point**
N/A

**Suitable Extinguishing Media**
Use extinguishing measures that are appropriate to local circumstances and the surrounding environment

**Explosion Data**

Sense to Mechanical Impact: none

Sensitivity to Static Discharge: none

**Specific hazards arising from the chemical**
Not considered flammable.

**Protective Equipment and Precautions for Firefighters**
As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear

<table>
<thead>
<tr>
<th>NFPA</th>
<th>Health Hazard</th>
<th>Flammability</th>
<th>Stability</th>
<th>Physical and chemical hazards</th>
</tr>
</thead>
<tbody>
<tr>
<td>HMIS</td>
<td>Health Hazard</td>
<td>Flammability</td>
<td>Physical Hazard</td>
<td>Personal protection</td>
</tr>
</tbody>
</table>

6. ACCIDENTAL RELEASE MEASURES

**Personal precautions**
Ensure adequate ventilation

**Environmental precautions**
Try to prevent the material from entering drains or water courses

**Methods for Containment**
Dilute with water and neutralize as required.

**Methods for cleaning up**
Stop flow of product. Dilute with water and neutralize if required. Avoid inhalation. Wash away small spills with plenty of water. Avid skin contact. Decontaminate clothing. Observe all local, state and federal regulations. Collect large spills for disposal. Observe all label safeguards until container is cleaned, reconditioned or destroyed.

7. HANDLING AND STORAGE
**Advice on safe handling**

KEEP OUT OF REACH OF CHILDREN Keep container closed when not in use. Do not contaminate water, food, or feed. Avoid contact with skin and eyes or the breathing of mists. Wash thoroughly after use. Do not take internally. For industrial use only. Do not mix with anything but water.

**Technical measures/Storage conditions**

Store at room temperature. Keep from freezing. Use with adequate ventilation. Keep container closed when not in use.

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### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Exposure Guidelines

Review Section 3 & 4 for Exposure Guidelines.

#### Chemical Name

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>ACGIH TLV</th>
<th>OSHA PEL</th>
<th>NIOSH IDLH</th>
</tr>
</thead>
<tbody>
<tr>
<td>Potassium hydroxide</td>
<td>2 mg/m³</td>
<td>2 mg/m³</td>
<td>Ceiling: 2 mg/m³</td>
</tr>
</tbody>
</table>

#### Engineering Measures

Showers
Eyewash stations
Ventilation systems

#### Personal Protective Equipment Institutional Environment

- **Eye/Face Protection**: Safety glasses are suggested when using this product in heavy use and institutional environments.
- **Consumer Environments**: Care should be taken to avoid Eye contact.
- **Skin and body protection**: Rubber gloves
- **Respiratory protection**: Unnecessary in open institutional environments.
- **Hygiene measures**: Practice good personal hygiene. Wash after handling.

#### Personal Protective Equipment Industrial Environment

- **Eye/Face Protection**: Splash-proof chemical goggles or face shield.
- **Skin and body protection**: Impervious rubber, alkali-proof protective gloves, Impervious rubber boots & apron.
- **Respiratory protection**: If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.
- **Hygiene measures**: Practice good personal hygiene. Wash after handling. Shower at end of work period

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### 9. PHYSICAL AND CHEMICAL PROPERTIES

#### 9.1 Information on basic physical and chemical properties

**Physical state**: liquid

**Appearance**: High Viscosity Liquid

**Color**: No information available

**Odor**: No information available

**Odor Threshold**: No information available

<table>
<thead>
<tr>
<th>Property</th>
<th>Values</th>
<th>Remarks</th>
<th>Methods</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>pH</strong></td>
<td>8.3</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Melting/freezing point</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Freezing Point</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Boiling point/boiling range</strong></td>
<td>214 °F</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Flash Point</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Evaporation rate</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Flammability (solid, gas)</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Flammability Limits in Air</strong></td>
<td></td>
<td></td>
<td></td>
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<td></td>
<td></td>
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<td></td>
</tr>
</tbody>
</table>
9.2 Other information

- Softening point: No information available
- Molecular Weight: No information available
- VOC Content(%): No information available
- Density VALUE: No information available
- Bulk Density VALUE: No information available

10. STABILITY AND REACTIVITY

- Stability: Stable
- Incompatible products: Strong oxidizing agents
- Conditions to Avoid: None known based on information supplied
- Hazardous Decomposition Products: None known based on information supplied
- Hazardous Polymerization: Hazardous polymerization does not occur

11. TOXICOLOGICAL INFORMATION

- Acute toxicity
  - Product Information: Product does not present an acute toxicity hazard based on known or supplied information.

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>LD50 Oral</th>
<th>LD50 Dermal</th>
<th>LC50 Inhalation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Potassium hydroxide</td>
<td>214 mg/kg (Rat)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

- Chronic toxicity
  - Target Organ Effects: None known.

12. ECOLOGICAL INFORMATION

- Ecotoxicity: The environmental impact of this product has not been fully investigated
### 13. DISPOSAL CONSIDERATIONS

**Waste Disposal Methods**

This material, as supplied, is not a hazardous waste according to Federal regulations (40 CFR 261). This material could become a hazardous waste if it is mixed with or otherwise comes in contact with a hazardous waste, if chemical additions are made to this material, or if the material is processed or otherwise altered. Consult 40 CFR 261 to determine whether the altered material is a hazardous waste. Consult the appropriate state, regional, or local regulations for additional requirements.

**Contaminated packaging**

Do not re-use empty containers.

### 14. TRANSPORT INFORMATION

**Note**

Compounds, Cleaning Liquid

**Dot**

Not regulated

**Proper shipping name**

Compounds, Cleaning Liquid

**TDG**

Not regulated

**MEX**

Not regulated

**ICAO**

Not regulated

**ICAO/IATA**

Not regulated

**IMDG / IMO**

Not regulated

**RID**

Not regulated

**ADR/RID**

Not regulated

**ADN**

Not regulated

### 15. REGULATORY INFORMATION

**International Inventories**

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>TSCA</th>
<th>DSL</th>
<th>NDSL</th>
<th>EINECS</th>
<th>ELINCS</th>
<th>ENCS</th>
<th>IECSC</th>
<th>KECL</th>
<th>PICCS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Potassium hydroxide</td>
<td>TSCA</td>
<td>-</td>
<td>-</td>
<td>Complies</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

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**Chemical Name** | **Toxicity to algae** | **Toxicity to fish** | **Toxicity to microorganisms** | **Toxicity to daphnia and other aquatic invertebrates**
---|---|---|---|---|
Potassium hydroxide | 80: 96 h Gambusia affinis mg/L LC50 static | | | |

**Chemical Name** | **log Pow**
---|---|
Potassium hydroxide | 0.83
This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CWA - Reportable Quantities</th>
<th>CWA - Toxic Pollutants</th>
<th>CWA - Priority Pollutants</th>
<th>CWA - Hazardous Substances</th>
</tr>
</thead>
<tbody>
<tr>
<td>Potassium hydroxide</td>
<td>1000 lb</td>
<td></td>
<td></td>
<td>X</td>
</tr>
</tbody>
</table>

**CERCLA**

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Hazardous Substances RQs</th>
<th>Extremely Hazardous Substances RQs</th>
<th>RQ</th>
</tr>
</thead>
<tbody>
<tr>
<td>Potassium hydroxide</td>
<td>1000 lb</td>
<td></td>
<td>RQ 1000 lb final RQ 454 kg final RQ</td>
</tr>
</tbody>
</table>

**U.S. State Regulations**

**California Proposition 65**

This product does not contain any Proposition 65 chemicals.

**U.S. State Right-to-Know Regulations**

**International Regulations**

**Canada**
This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

16. OTHER INFORMATION

Prepared By
Swisher Hygiene Inc.
4725 Piedmont Row Drive
Suite 400
Charlotte, NC 28210

Issuing date
18-Oct-2011

Revision Date
18-Oct-2011

Revision Note
No information available

Disclaimer
The information provided on this MSDS 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 guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as 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 material or in any process, unless specified in the text.

End of Material Safety Data Sheet