Material Safety Data Sheet

1. PRODUCT AND COMPANY IDENTIFICATION

Product name: Swisher Super Enzyme Powder
Product code: 41857
Recommended Use: Laundry Destainer

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:
Mists & vapors are irritating to the eyes & skin and exposure can cause severe burns.

Appearance: Free flowing powder
Physical state: No information available
Odor: Characteristic

Potential Health Effects

Acute toxicity
- Eyes: Irritating to eyes
- Skin: Irritating to skin
- Inhalation: No known effect based on information supplied
- Ingestion: Severe burns.

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>New Jersey Trade Secret</td>
<td>39210900-5311</td>
<td>&lt;30</td>
</tr>
<tr>
<td>New Jersey Trade Secret</td>
<td>39210900-5355</td>
<td>&lt;30</td>
</tr>
<tr>
<td>Amylase, .alpha.-</td>
<td>9000-90-2</td>
<td>&lt; 5</td>
</tr>
<tr>
<td>Subtilisins (proteolytic enzymes)</td>
<td>9014-01-1</td>
<td>&lt; 5</td>
</tr>
</tbody>
</table>
4. FIRST AID MEASURES

**Eye contact**
Flush eyes with cool water for 15-30 minutes and get immediate medical attention.

**Skin contact**
Flush with flowing water for 15 minutes. See physician if irritation persists Remove and wash contaminated clothing before re-use.

**Inhalation**
Move to fresh air. Get medical attention immediately.

**Ingestion**
If swallowed, DO NOT induce vomiting. Immediately drink a large quantity of water. Never give anything by mouth to an unconscious person. Get medical attention immediately.

**Notes to physician**
Treat symptomatically.

5. FIRE-FIGHTING MEASURES

**Flammable Properties**
Not flammable

**Flash point**
Not determined.

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

**Explosion Data**
- **Sensitivity to Mechanical Impact**: none
- **Sensitivity to Static Discharge**: none

**Specific hazards arising from the chemical**
Use NIOSH certified gas mask with canister for Chlorine. If possible, remove material to open air and flood with water.

**Protective Equipment and Precautions for Firefighters**
Not considered flammable Protect from irritating mists and corrosive solutions with pressure demand, self-contained respirator and protective clothing

**NFPA**
- Health Hazard: 0
- Flammability: 0
- Stability: 0
- Physical and chemical hazards: -

**HMIS**
- Health Hazard: 0
- Flammability: 0
- Physical Hazard: 0
- Personal protection: -

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**
Contain spill, dilute with water and neutralize as required. Wash away small spills with plenty of water. Spills may be slippery.

**Methods for cleaning up**
Pick up and transfer to properly labeled containers

7. HANDLING AND STORAGE

**Advice on safe handling**
KEEP OUT OF REACH OF CHILDREN Do not take internally. Avoid contamination of food. For industrial use only. Do not mix with anything but water. Avoid strong oxidizing agents, acids, aluminum and other soft metals

**Technical measures/Storage conditions**
Store at room temperature Avoid contact with strong oxidizing agents, aluminum and other soft metals. Use adequate ventilation Keep from freezing
8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines
Review Section 3 & 4 for Exposure Guidelines.

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>ACGIH TLV</th>
<th>OSHA PEL</th>
<th>NIOSH IDLH</th>
</tr>
</thead>
<tbody>
<tr>
<td>Subtilisins (proteolytic enzymes) 9014-01-1</td>
<td></td>
<td></td>
<td>STEL: 0.00006 mg/m³ 60 min Subtilisins</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.

Skin and body protection
Rubber gloves

Respiratory protection
Unnecessary in open institutional environment.

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
Practice good personal hygiene. Wash after handling

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Values</th>
<th>Remarks</th>
<th>Methods</th>
</tr>
</thead>
<tbody>
<tr>
<td>pH</td>
<td>11.2</td>
<td>No information available</td>
<td>No information available</td>
</tr>
<tr>
<td>Melting/freezing point</td>
<td></td>
<td>No information available</td>
<td>No information available</td>
</tr>
<tr>
<td>Freezing Point</td>
<td></td>
<td>No information available</td>
<td>No information available</td>
</tr>
<tr>
<td>Boiling point.boiling range</td>
<td></td>
<td>No information available</td>
<td>No information available</td>
</tr>
<tr>
<td>Flash Point</td>
<td></td>
<td>No information available</td>
<td>No information available</td>
</tr>
<tr>
<td>Evaporation rate</td>
<td></td>
<td>No information available</td>
<td>No information available</td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td></td>
<td>No information available</td>
<td>No information available</td>
</tr>
<tr>
<td>Flammability Limits in Air</td>
<td></td>
<td>No information available</td>
<td>No information available</td>
</tr>
<tr>
<td>upper flammability limit</td>
<td></td>
<td>No information available</td>
<td>No information available</td>
</tr>
<tr>
<td>lower flammability limit</td>
<td></td>
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<tr>
<td>Explosion Limits</td>
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<td>No information available</td>
</tr>
<tr>
<td>upper</td>
<td></td>
<td>No information available</td>
<td>No information available</td>
</tr>
<tr>
<td>lower</td>
<td></td>
<td>No information available</td>
<td>No information available</td>
</tr>
<tr>
<td>Vapor pressure</td>
<td></td>
<td>No information available</td>
<td>No information available</td>
</tr>
<tr>
<td>Vapor density</td>
<td></td>
<td>No information available</td>
<td>No information available</td>
</tr>
<tr>
<td>Specific Gravity</td>
<td></td>
<td>No information available</td>
<td>No information available</td>
</tr>
</tbody>
</table>
Swisher Super Enzyme Powder

Water solubility
No information available

Solubility in other solvents
No information available

Partition coefficient: n-octanol/water
No information available

Autoignition temperature
No information available

Decomposition temperature
No information available

Viscosity, kinematic
No information available

Viscosity, dynamic
No information available

Explosive properties
No information available

Oxidizing Properties
No information available

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 Acids, aluminum and other soft metals

Conditions to Avoid
Extreme heat. Keep out of sunlight.

Hazardous Decomposition Products
Chlorine gas & related toxic gases

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 (Rat)</th>
<th>LD50 Dermal</th>
<th>LC50 Inhalation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Amylase, .alpha.-</td>
<td>7500 mg/kg</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Subtilisins (proteolytic enzymes)</td>
<td>3700 mg/kg</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

<table>
<thead>
<tr>
<th>Note</th>
<th>CLEANING COMPOUND DRY, N.O.S.</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Dot</strong></td>
<td>Not regulated</td>
</tr>
<tr>
<td>Proper shipping name</td>
<td>CLEANING COMPOUND DRY, N.O.S.</td>
</tr>
<tr>
<td><strong>TDG</strong></td>
<td>Not regulated</td>
</tr>
<tr>
<td><strong>MEX</strong></td>
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</tr>
<tr>
<td><strong>ICAO</strong></td>
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</tr>
<tr>
<td><strong>ICAO/IATA</strong></td>
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<tr>
<td><strong>IMDG / IMO</strong></td>
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</tr>
<tr>
<td><strong>RID</strong></td>
<td>Not regulated</td>
</tr>
<tr>
<td><strong>ADR/RID</strong></td>
<td>Not regulated</td>
</tr>
<tr>
<td><strong>ADN</strong></td>
<td>Not regulated</td>
</tr>
</tbody>
</table>

### 15. REGULATORY INFORMATION

**International Inventories**

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

**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory  
**DSL/NDSL** - Canadian Domestic Substances List/Non-Domestic Substances List  
**EINECS/ELINCS** - European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances  
**ENCS** - Japan Existing and New Chemical Substances  
**IECSC** - China Inventory of Existing Chemical Substances  
**KECL** - Korean Existing and Evaluated Chemical Substances  
**PICCS** - Philippines Inventory of Chemicals and Chemical Substances  
**AICS** - Australian Inventory of Chemical Substances

**U.S. Federal Regulations**
SARA 313
Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

SARA 311/312 Hazard Categories
- Acute Health Hazard: no
- Chronic Health Hazard: no
- Fire Hazard: no
- Sudden Release of Pressure Hazard: no
- Reactive Hazard: no

Clean Water Act
This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

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.

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: 14-Oct-2011
Revision Date: 14-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.