1. PRODUCT AND COMPANY IDENTIFICATION

Product name          Swisher Extra Strength Plus
Product code          41726
UN/ID No              UN1759
Recommended Use       Solid Dish 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
   This product contains substances which at their given concentration, are considered to be hazardous to health.

   Appearance  White powder         Physical state  powder.           Odor  Odorless

   Potential Health Effects
   Acute toxicity
     Eyes       Irritation, or burning to mucous membranes
     Skin       Irritation, or burning to mucous membranes
     Inhalation  Causes burns
     Ingestion  Causes 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 product is 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>Sodium hydroxide</td>
<td>1310-73-2</td>
<td>30-50</td>
</tr>
</tbody>
</table>
4. FIRST AID MEASURES

Eye contact  
Flush with flowing water for 15 minutes & see physician.

Skin contact  
Flush with water. Remove contaminated clothing and do not re-wear until washed. If burns develop see a physician.

Inhalation  
If irritation develops or difficulty in breathing remove victim to fresh air. Call physician immediately if irritation persists.

Ingestion  
Drink large amounts of water or milk. DO NOT INDUCE VOMITING. See a physician immediately.

Notes to physician  
Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Flammable Properties  
Not flammable

Flash point  
N/A

Suitable Extinguishing Media  
Dry chemical, water mist, alcohol foam

Hazardous Combustion Products  
Carbon oxides

Explosion Data

Sensitivity to Mechanical Impact  
none

Sensitivity to Static Discharge  
none

Specific hazards arising from the chemical  
Contact with aluminum and zinc in presence of moisture will produce hydrogen gas, which can form explosive mixture in air.

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

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

HMIS  
Health Hazard 2  Flammability 0  Physical Hazard 0  Personal protection B

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 residual material with dilute acetic acid (vinegar) to a pH of less than 10.

Methods for cleaning up  
Sweep up spilled material taking care not to produce dust.

7. HANDLING AND STORAGE

Advice on safe handling  
KEEP OUT OF REACH OF CHILDREN Wash hands before eating. Keep container tightly closed when not in use

Technical measures/Storage conditions  
Store in cool dry place.
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>Sodium hydroxide 1310-73-2</td>
<td></td>
<td>TWA: 2 mg/m³</td>
<td>IDLH: 10 mg/m³ 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 environment.  
Hygiene measures  
Practice good personal hygiene. Wash after handling.

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>Physical state</td>
<td>powder</td>
<td>Odor</td>
<td>Odorless</td>
</tr>
<tr>
<td>Appearance</td>
<td>White powder</td>
<td>Odor Threshold</td>
<td>No information available</td>
</tr>
<tr>
<td>Color</td>
<td>white</td>
<td>Odorless</td>
<td>No information available</td>
</tr>
<tr>
<td>pH</td>
<td>&gt;13</td>
<td>No information</td>
<td>available</td>
</tr>
<tr>
<td>Melting/freezing point</td>
<td></td>
<td>No information</td>
<td>available</td>
</tr>
<tr>
<td>Freezing Point</td>
<td></td>
<td>No information</td>
<td>available</td>
</tr>
<tr>
<td>Boiling point/boiling range</td>
<td></td>
<td>No information</td>
<td>available</td>
</tr>
<tr>
<td>Flash Point</td>
<td></td>
<td>No information</td>
<td>available</td>
</tr>
<tr>
<td>Evaporation rate</td>
<td></td>
<td>No information</td>
<td>available</td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td></td>
<td>No information</td>
<td>available</td>
</tr>
<tr>
<td>Flammability Limits in Air</td>
<td></td>
<td>No information</td>
<td>available</td>
</tr>
<tr>
<td>upper flammability limit</td>
<td></td>
<td>No information</td>
<td>available</td>
</tr>
<tr>
<td>lower flammability limit</td>
<td></td>
<td>No information</td>
<td>available</td>
</tr>
<tr>
<td>Explosion Limits</td>
<td></td>
<td>No information</td>
<td>available</td>
</tr>
<tr>
<td>upper</td>
<td></td>
<td>No information</td>
<td>available</td>
</tr>
<tr>
<td>lower</td>
<td></td>
<td>No information</td>
<td>available</td>
</tr>
<tr>
<td>Vapor pressure</td>
<td></td>
<td>No information</td>
<td>available</td>
</tr>
<tr>
<td>Vapor density</td>
<td></td>
<td>No information</td>
<td>available</td>
</tr>
<tr>
<td>Specific Gravity</td>
<td></td>
<td>No information</td>
<td>available</td>
</tr>
<tr>
<td>Water solubility</td>
<td></td>
<td>No information</td>
<td>available</td>
</tr>
</tbody>
</table>
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 acids, contact with aluminum or zinc in the presence of moisture
Conditions to Avoid: Elevated Temperatures Moisture
Hazardous Decomposition Products: Carbon oxides
Hazardous Polymerization: Hazardous polymerization does not occur

11. TOXICOLOGICAL INFORMATION

Acute toxicity

Product Information: Dust is irritating to eyes and mucous membranes. Causes burns to eyes, skin, and mucous membranes. May be toxic if swallowed

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>LD50 Oral</th>
<th>LD50 Dermal</th>
<th>LC50 Inhalation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium hydroxide</td>
<td></td>
<td></td>
<td>1350 mg/kg (Rabbit)</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

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Toxicity to algae</th>
<th>Toxicity to fish</th>
<th>Toxicity to microorganisms</th>
<th>Toxicity to daphnia and other aquatic invertebrates</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium hydroxide</td>
<td></td>
<td>45.4: 96 h Oncorhynchus mykiss mg/L LC50 static</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

13. DISPOSAL CONSIDERATIONS
Waste Disposal Methods  Flush diluted material to sewer.

Contaminated packaging  Do not re-use empty containers

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**14. TRANSPORT INFORMATION**

<table>
<thead>
<tr>
<th>Note</th>
<th>UN1759, Corrosive Solid, n.o.s. (contains hydroxide), 8, PG II</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Dot</strong></td>
<td>Regulated</td>
</tr>
<tr>
<td>Proper shipping name</td>
<td>UN1759, Corrosive Solid, n.o.s. (contains hydroxide), 8, PG II</td>
</tr>
<tr>
<td>Hazard class</td>
<td>8</td>
</tr>
<tr>
<td>UN/ID No</td>
<td>UN1759</td>
</tr>
<tr>
<td>Packing Group</td>
<td>II</td>
</tr>
<tr>
<td>TDG</td>
<td>Not regulated</td>
</tr>
<tr>
<td>MEX</td>
<td>Not regulated</td>
</tr>
<tr>
<td>ICAO</td>
<td>Not regulated</td>
</tr>
<tr>
<td>ICAO/IATA</td>
<td>Not regulated</td>
</tr>
<tr>
<td>IMDG / IMO</td>
<td>Not regulated</td>
</tr>
<tr>
<td>RID</td>
<td>Not regulated</td>
</tr>
<tr>
<td>ADR/RID</td>
<td>Not regulated</td>
</tr>
<tr>
<td>ADN</td>
<td>Not regulated</td>
</tr>
</tbody>
</table>

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**15. REGULATORY INFORMATION**

<table>
<thead>
<tr>
<th>International Inventories</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>TSCA</td>
<td>TSCA</td>
</tr>
<tr>
<td>DSL</td>
<td>Complies</td>
</tr>
<tr>
<td>NDSL</td>
<td>Complies</td>
</tr>
<tr>
<td>EINECS</td>
<td>Complies</td>
</tr>
<tr>
<td>ELINCS</td>
<td>-</td>
</tr>
<tr>
<td>ENCS</td>
<td>Complies</td>
</tr>
<tr>
<td>IECSC</td>
<td>Complies</td>
</tr>
<tr>
<td>KECL</td>
<td>Complies</td>
</tr>
<tr>
<td>PICCS</td>
<td>Complies</td>
</tr>
<tr>
<td>AICS</td>
<td>Complies</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
SARA TITLE III (EPCRA) NOTIFICATION: Does not contain chemicals subject to the reporting requirements of Section 302, 304, or 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986.

COMPREHENSIVE ENVIRONMENTAL RESPONSE, COMPENSATION, AND LIABILITY ACT (CERCLA) NOTIFICATION:
SODIUM HYDROXIDE
For more information, consult 40 CFR parts 302, 355, 370, 372, and 40 CFR part 68.

SARA 311/312 Hazard Categories

<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>Sodium 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>Sodium hydroxide</td>
<td>1000 lb</td>
<td></td>
<td>RQ 1000 lb final RQ 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