1. PRODUCT AND COMPANY IDENTIFICATION

Product name: Swisher Synplex Steam Clean Compound
Product code: 41743-55
Recommended Use: Degreaser

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: Clear Liquid
Physical state: liquid.
Odor: Glycol

Potential Health Effects
Acute toxicity
- Eyes: Corrosive. Prolonged contact may cause eye damage
- Skin: Corrosive; may produce burns. Prolonged contact may result in burns and ulcerations. Its harmful if absorbed through the skin.
- Inhalation: Hazardous in case of inhalation. May cause respiratory tract irritation. Liquid or spray mist may produce tissue damage on mucous membranes of eyes mouth and respiratory tract.
- Ingestion: Can cause nausea and burns to mouth, throat and stomach.

Chronic Effects: Repeated or prolonged exposure may produce defatting of the skin.
Aggravated Medical Conditions: Repeated or prolonged exposure may produce defatting of the skin.
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>2-Butoxyethanol</td>
<td>111-76-2</td>
<td>&lt; 10</td>
</tr>
<tr>
<td>Tetrasodium EDTA</td>
<td>64-02-8</td>
<td>&lt; 1</td>
</tr>
</tbody>
</table>
4. FIRST AID MEASURES

Eye contact  
Check for and remove contact lens. Immediately flush with plenty of water for at least 15 minutes. Get medical attention immediately.

Skin contact  
Wash contaminated area with soap or mild detergent. Remove contaminated clothing and shoes. Wash clothing before reuse. Get medical attention immediately.

Inhalation  
If symptoms occur move affected person to fresh air. If not breathing, give artificial respiration. If symptoms persist, get medical attention promptly.

Ingestion  
If product is swallowed, do not induce vomiting. If vomiting occurs keep head lower than hips to help prevent aspiration. Never give anything by mouth to an unconscious person. Get medical attention at once.

Notes to physician  
Treat symptomatically

5. FIRE-FIGHTING MEASURES

Flammable Properties  
Not flammable

Flash point  
none

Suitable Extinguishing Media  
Use water vapor, foam or fog. Firefighters should wear proper protective equipment.

Hazardous Combustion Products  
Carbon monoxide Carbon dioxide

Explosion Data

Sensitivity to Mechanical Impact  
none

Sensitivity to Static Discharge  
none

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

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

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  
Prevent further leakage or spillage if safe to do so

Methods for cleaning up  
Wear appropriate protective equipment. Absorb with an inert material and put spilled material in appropriate waste disposal.

7. HANDLING AND STORAGE

Advice on safe handling  
Avoid contact with eyes, skin and clothing. Avoid breathing vapors or mists. Keep container closed. Wash thoroughly after handling.
Technical measures/Storage conditions  
Keep container in cool well-ventilated area. Keep container tightly closed. Store away from incompatible materials. Keep out of the reach of children.

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>2-Butoxyethanol</td>
<td>TWA: 20 ppm</td>
<td>TWA: 50 ppm TWA: 240 mg/m³</td>
<td>IDLH: 700 ppm TWA: 5 ppm TWA: 24 mg/m³</td>
</tr>
<tr>
<td>Sodium metasilicate</td>
<td></td>
<td>2mg/m³</td>
<td></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.

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

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>liquid</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Appearance</td>
<td>Clear Liquid</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Color</td>
<td>blue</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Odor</td>
<td>Glycol</td>
<td>No information available</td>
<td></td>
</tr>
<tr>
<td>Odor Threshold</td>
<td>No information available</td>
<td></td>
<td></td>
</tr>
<tr>
<td>pH</td>
<td>12.5-12.9</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Melting/freezing point</td>
<td></td>
<td>No information available</td>
<td></td>
</tr>
<tr>
<td>Freezing Point</td>
<td></td>
<td>No information available</td>
<td></td>
</tr>
<tr>
<td>Boiling point/boiling range</td>
<td>212 °F</td>
<td>No information available</td>
<td></td>
</tr>
<tr>
<td>Flash Point</td>
<td></td>
<td>No information available</td>
<td></td>
</tr>
<tr>
<td>Evaporation rate</td>
<td>&gt; 1</td>
<td>No information available</td>
<td></td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td></td>
<td>No information available</td>
<td></td>
</tr>
<tr>
<td>Flammability Limits in Air</td>
<td></td>
<td>No information available</td>
<td></td>
</tr>
<tr>
<td>upper flammability limit</td>
<td></td>
<td>No information available</td>
<td></td>
</tr>
<tr>
<td>lower flammability limit</td>
<td></td>
<td>No information available</td>
<td></td>
</tr>
<tr>
<td>Explosion Limits</td>
<td></td>
<td>No information available</td>
<td></td>
</tr>
<tr>
<td>upper</td>
<td></td>
<td>No information available</td>
<td></td>
</tr>
</tbody>
</table>
1. TOXICOLOGICAL INFORMATION

VOC Content (%): < 10

Acute toxicity:

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

Chronic toxicity:

Repeated or prolonged exposure may produce defatting of the skin.

9.2 Other information

Softening point: No information available

Molecular Weight: No information available

VOC Content (%): < 10

Density VALUE: No information available

Bulk Density VALUE: No information available

10. STABILITY AND REACTIVITY

Stability: Stable

Incompatible products: oxidizing agents, strong acids

Conditions to Avoid: None known based on information supplied

Hazardous Decomposition Products: Carbon monoxide, Carbon dioxide

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>2-Butoxyethanol</td>
<td>470 mg/kg (Rat)</td>
<td>220 mg/kg (Rabbit) 2270 mg/kg (Rat)</td>
<td>2.21 mg/L (Rat) 4 h 450 ppm (Rat) 4 h</td>
</tr>
<tr>
<td>Tetrasodium EDTA</td>
<td>10 g/kg (Rat)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sodium metasilicate</td>
<td>600 mg/kg (Rat)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Tetrapotassium pyrophosphate</td>
<td></td>
<td></td>
<td>4640 mg/kg (Rabbit)</td>
</tr>
</tbody>
</table>

Chronic toxicity:

Repeated or prolonged exposure may produce defatting of the skin.

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>ACGIH</th>
<th>IARC</th>
<th>NTP</th>
<th>OSHA</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-Butoxyethanol</td>
<td>A3</td>
<td>Group 3</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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>2-Butoxyethanol</td>
<td>1490: 96 h Lepomis macrochirius mg/L LC50 static 2950: 96 h Lepomis macrochirius mg/L LC50</td>
<td>41: 96 h Lepomis macrochirius mg/L LC50 static 59.8: 96 h Pimephales promelas mg/L LC50 static</td>
<td>1698 - 1940: 24 h Daphnia magna mg/L EC50 &gt;1000: 48 h Daphnia magna mg/L EC50</td>
<td></td>
</tr>
<tr>
<td>Tetrasodium EDTA</td>
<td>1.01: 72 h Desmodesmus subspicatus mg/L EC50</td>
<td>210: 96 h Brachydanio rerio mg/L LC50 210: 96 h Brachydanio rerio mg/L LC50 semi-static</td>
<td>216: 96 h Daphnia magna mg/L EC50</td>
<td></td>
</tr>
<tr>
<td>Sodium metasilicate</td>
<td>210: 96 h Brachy danio rerio mg/L LC50 210: 96 h Brachydanio rerio mg/L LC50 semi-static</td>
<td>210: 96 h Brachydanio rerio mg/L LC50 semi-static</td>
<td>216: 96 h Daphnia magna mg/L EC50</td>
<td></td>
</tr>
<tr>
<td>Tetrapotassium pyrophosphate</td>
<td>100: 96 h Oncorhynchus mykiss mg/L LC50</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>log Pow</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-Butoxyethanol</td>
<td>0.81</td>
</tr>
</tbody>
</table>

13. DISPOSAL CONSIDERATIONS

Waste Disposal Methods Liquid wastes are not permitted in landfill. Consult local, state, and federal agencies for proper disposal in your area.

Contaminated packaging Do not re-use empty containers

14. TRANSPORT INFORMATION

Note Cleaning Compound, Not Regulated

Dot Not regulated

Proper shipping name Cleaning Compound, Not Regulated

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>Inventory</th>
<th>Compliance Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>TSCA</td>
<td>Complies</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 313 toxic chemical notification and release reporting - regulated substance: 2-butoxy ethanol

SARA 311/312 Hazard Categories

<table>
<thead>
<tr>
<th>Hazard Category</th>
<th>Carcinogen Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute Health Hazard</td>
<td>no</td>
</tr>
<tr>
<td>Chronic Health Hazard</td>
<td>no</td>
</tr>
<tr>
<td>Fire Hazard</td>
<td>no</td>
</tr>
<tr>
<td>Sudden Release of Pressure Hazard</td>
<td>no</td>
</tr>
<tr>
<td>Reactive Hazard</td>
<td>no</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Carcinogen Status</th>
<th>Exposure Limits</th>
</tr>
</thead>
</table>

Page 6 / 7
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.

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>NPRI</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-Butoxyethanol</td>
<td>X</td>
</tr>
</tbody>
</table>

16. OTHER INFORMATION

End of Material Safety Data Sheet