1. PRODUCT AND COMPANY IDENTIFICATION

Product name
Swisher Select Glass and Hard Surface Cleaner

Product code
40225-1

Recommended Use
Glass and Hard Surface Cleaner

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
May cause skin, eye, and respiratory tract irritation

Appearance
Thin Liquid

Physical state
liquid.

Odor
Pleasant

Potential Health Effects

Acute toxicity

<table>
<thead>
<tr>
<th>Eyes</th>
<th>Irritation or burns</th>
</tr>
</thead>
<tbody>
<tr>
<td>Skin</td>
<td>Irritation or burns</td>
</tr>
<tr>
<td>Inhalation</td>
<td>Irritation or dizziness</td>
</tr>
<tr>
<td>Ingestion</td>
<td>Dizziness, nausea</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>2-Butoxyethanol</td>
<td>111-76-2</td>
<td>&lt;3</td>
</tr>
<tr>
<td>Isopropanol</td>
<td>67-67-0</td>
<td>&lt;2</td>
</tr>
</tbody>
</table>
4. FIRST AID MEASURES

**Eye contact**
Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

**Skin contact**
Wash with soap & water; flush with flowing water for 15 minutes. See physician if burning persists.

**Inhalation**
Remove to fresh air. If breathing has stopped, apply suitable artificial respiration. Get medical help.

**Ingestion**
Give milk or water to dilute material; DO NOT induce vomiting. Avoid alcohol. 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**
Flammable

**Flash point**
160 °F

**Suitable Extinguishing Media**
Water spray or fog, foam, dry chemical, carbon dioxide if product is involved.

**Hazardous Combustion Products**
If burned, normal combustion products: Carbon dioxide, Carbon monoxide; Nitrous oxides.

**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**

<table>
<thead>
<tr>
<th>Health Hazard</th>
<th>Flammability</th>
<th>Stability</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
</tbody>
</table>

**HMMIS**

<table>
<thead>
<tr>
<th>Health Hazard</th>
<th>Flammability</th>
<th>Physical Hazard</th>
<th>Personal protection</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>3</td>
<td>0</td>
<td>B</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**
Prevent further leakage or spillage if safe to do so

**Methods for cleaning up**
Isolate from sources of ignition Mop up & flush to sewer with plenty of water. Floors may be slippery. Use care to avoid falls

7. HANDLING AND STORAGE

**Advice on safe handling**
KEEP OUT OF REACH OF CHILDREN DANGER Flammable Do not get in eyes, on skin or on clothing Do not use or store near heat, sparks, or open flame

**Technical measures/Storage conditions**
Keep away from open flames, hot surfaces and sources of ignition Store below 115°F

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Page 2 / 7
Exposure Guidelines

This product does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

<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 S*</td>
<td>IDLH: 700 ppm TWA: 5 ppm TWA: 24 mg/m³</td>
</tr>
</tbody>
</table>

Engineering Measures

Showers
Eyewash stations
Ventilation systems

Personal Protective Equipment

Eye/Face Protection
Safety glasses recommended
Solvent-proof gloves

Skin and body 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.

Respiratory protection

Hygiene measures

Handle in accordance with good industrial hygiene and safety practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Physical state: liquid
Appearance: Thin Liquid
Color: clear blue
Odor: Pleasant
Odor Threshold: No information available

Property                                      | Values | Remarks     | Methods         | Values |
----------------------------------------------|--------|-------------|-----------------|--------|
pH                                            | 9.5    | No information available |                        |
Melting/freezing point                        |        | No information available |                        |
Freezing Point                                |        | No information available |                        |
Boiling point/boiling range                   | 180 °F | No information available |                        |
Flash Point                                   | 160 °F | No information available |                        |
Evaporation rate                              | >1.00  | No information available |                        |
Flammability (solid, gas)                    |        | No information available |                        |
Flammability Limits in Air                    |        | No information available |                        |
upper flammability limit                      |        |                        |                        |
lower flammability limit                      |        |                        |                        |
Explosion Limits                              |        |                        |                        |
upper                                         |        |                        |                        |
lower                                         |        |                        |                        |
Vapor pressure                                | 100    | No information available |                        |
Vapor density                                 | 3      | No information available |                        |
Specific Gravity                              | 0.996  | No information available |                        |
Water solubility                             | Completely soluble. | 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
10. STABILITY AND REACTIVITY

Stability  Stable under recommended storage conditions.

Incompatible products  Strong oxidizing agents Bleach

Conditions to Avoid  Heat, flames and sparks

Hazardous Decomposition Products  Carbon dioxide Carbon monoxide Nitrous oxides

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>
</tbody>
</table>

Chronic toxicity

<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 macrochirus mg/L LC50 static 2950: 96 h Lepomis macrochirus mg/L LC50</td>
<td>1698 - 1940: 24 h Daphnia magna mg/L EC50 &gt;1000: 48 h Daphnia magna mg/L EC50</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

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>Dot</th>
<th>Proper shipping name</th>
<th>Hazard class</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Cleaning Compound, Not Regulated</td>
<td>Non-Hazardous</td>
</tr>
</tbody>
</table>

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

<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>-</td>
</tr>
<tr>
<td>NDSL</td>
<td>Complies</td>
</tr>
<tr>
<td>EINECS</td>
<td>-</td>
</tr>
<tr>
<td>ELINCS</td>
<td>-</td>
</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

### 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

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Carcinogen Status</th>
<th>Exposure Limits</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-Butoxyethanol</td>
<td></td>
<td>Mexico: TWA 26 ppm Mexico: TWA 120 mg/m³&lt;br&gt;Mexico: STEL 75 ppm Mexico: STEL 360 mg/m³</td>
</tr>
</tbody>
</table>

### 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.

<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

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