1. PRODUCT AND COMPANY IDENTIFICATION

Product name
Swisher Hercules

Product code
41740-1

Reference number(s)
41740-5

Recommended Use
Heavy Duty All Purpose Cleaner, Wax Stripper & 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
Repeated or prolonged exposure may produce defatting of the skin

Appearance Clear Liquid
Physical state liquid
Odor Glycol

Potential Health Effects

Acute toxicity

Eyes Corrosive. Contact may cause severe 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
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).
4. FIRST AID MEASURES

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

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

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

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.

Explosion Data

Sensitivity to Mechanical Impact  
none

Sensitivity to Static Discharge  
none

Protective Equipment and Precautions for Firefighters  
use water vapor, foam or fog. Firefighters should wear proper protective equipment.

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

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  
Absorb with an inert material and put spilled material in appropriate waste disposal Wear appropriate protective equipment

7. HANDLING AND STORAGE

Advice on safe handling  
KEEP OUT OF REACH OF CHILDREN Avoid contact with skin, eyes and clothing Avoid breathing vapors or mists Keep container closed Wash thoroughly after handling

Technical measures/Storage conditions  
Keep containers tightly closed in a cool, well-ventilated place Store away from incompatible materials

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>2-Butoxyethanol 111-76-2</td>
<td>TWA: 20 ppm</td>
<td>TWA: 50 ppm TWA: 240 mg/m³</td>
<td>S* IDLH: 700 ppm TWA: 5 ppm TWA: 24 mg/m³</td>
</tr>
<tr>
<td>Potassium hydroxide 1310-58-3</td>
<td>2 mg/m³</td>
<td>2 mg/m³</td>
<td>Ceiling: 2 mg/m³</td>
</tr>
<tr>
<td>Sodium metasilicate 6834-92-0</td>
<td></td>
<td></td>
<td>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.

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>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>clear blue green</td>
<td>Odor</td>
<td>Glycol</td>
</tr>
<tr>
<td>Odor Threshold</td>
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<td>No information available</td>
<td></td>
</tr>
</tbody>
</table>

**Remarks Methods**

<table>
<thead>
<tr>
<th>Property</th>
<th>Values</th>
<th>Remarks</th>
<th>Methods</th>
</tr>
</thead>
<tbody>
<tr>
<td>pH</td>
<td>13.1-13.5</td>
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</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>
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<td></td>
</tr>
<tr>
<td>Flash Point</td>
<td></td>
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<td></td>
</tr>
<tr>
<td>Evaporation rate</td>
<td>&gt;1</td>
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<td></td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
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<td></td>
</tr>
<tr>
<td>Flammability Limits in Air</td>
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<td></td>
</tr>
<tr>
<td>upper flammability limit</td>
<td></td>
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<td></td>
</tr>
<tr>
<td>lower flammability limit</td>
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<td></td>
</tr>
<tr>
<td>Explosion Limits</td>
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<td></td>
</tr>
<tr>
<td>upper</td>
<td></td>
<td>No information available</td>
<td></td>
</tr>
<tr>
<td>lower</td>
<td></td>
<td>No information available</td>
<td></td>
</tr>
<tr>
<td>Vapor pressure</td>
<td></td>
<td>No information available</td>
<td></td>
</tr>
<tr>
<td>Vapor density</td>
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<td>No information available</td>
<td></td>
</tr>
<tr>
<td>Specific Gravity</td>
<td>1.05-1.09</td>
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<tr>
<td>Water solubility</td>
<td></td>
<td>Completely soluble.</td>
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</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(%) | 8
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 (CO) Carbon dioxide (CO₂)
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.
LD50 Oral VALUE (mg/kg) | 1746 mg/kg Rat
LD50 Dermal VALUE | 680 mg/kg Rabbit
LC50 Inhalation (VAPOR) VALUE | 450 ppm 4 hours Rat female

<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>Potassium hydroxide</td>
<td>214 mg/kg (Rat)</td>
<td></td>
<td></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>4640 mg/kg (Rabbit)</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**
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

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### 14. TRANSPORT INFORMATION

**Note**
corrosive liquid n.o.s. (potassium hydroxide)

**Dot**

**Proper shipping name**
Regulated corrosive liquid n.o.s. (potassium hydroxide)

**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

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### 15. REGULATORY INFORMATION

**International Inventories**

<table>
<thead>
<tr>
<th>TSCA</th>
<th>TSCA</th>
</tr>
</thead>
<tbody>
<tr>
<td>DSL</td>
<td>Complies</td>
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<tr>
<td>NDSL</td>
<td>Complies</td>
</tr>
<tr>
<td>EINECS</td>
<td>Complies</td>
</tr>
</tbody>
</table>

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ELINCS -
ENCS - Complies
IECS - Complies
KECL - Complies
PICCS - Complies
AICS - Complies

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>Regulated</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

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
07-Oct-2011

Revision Date
24-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