1. PRODUCT AND COMPANY IDENTIFICATION

Product name: Swisher Embrace

Product code: 42128-5
Reference number(s): 42128-15/42128-55/42128-275

Recommended Use: Laundry 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.

<table>
<thead>
<tr>
<th>Appearance</th>
<th>Clear Liquid</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical state</td>
<td>liquid</td>
</tr>
<tr>
<td>Odor</td>
<td>Odorless</td>
</tr>
</tbody>
</table>

Potential Health Effects

Acute toxicity

- Eyes: Severe Irritation

- Skin: Exposure may cause mild skin irritation. Skin absorption is possible upon prolonged contact.

- Inhalation: Short term inhalation toxicity is moderate. Inhalation of higher concentration may cause central nervous system depression, blood in urine, difficulty breathing, blood abnormalities, kidney and liver damage, and death.

- Ingestion: Small amount is not likely to cause harmful effects. Large amounts may cause central nervous system depression, blood abnormalities, kidney and liver damage, and coma.

Chronic Effects: Can be fatal by overexposure.

Aggravated Medical Conditions: Pre-existing lung disorders may be aggravated by exposure to this material.

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**  
Immediately flush thoroughly with cool water under low pressure for at least 15 minutes, holding lids apart and moving eye to ensure flushing of the entire surface. Call a physician.

**Skin contact**  
Immediately flush area with plenty of cool water. If irritation develops, consult a physician.

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

**Ingestion**  
Never give anything by mouth to an unconscious person. DO NOT INDUCE VOMITING. If conscious give large quantities of water. If vomiting occurs spontaneously, keep airway clear. Seek medical attention.

**Notes to physician**  
Treat symptomatically

### 5. FIRE-FIGHTING MEASURES

**Flammable Properties**  
FLAMMABLE

**Flash point**  
Flash point > 200 °F

**Suitable Extinguishing Media**  
Alcohol Foam, Water Fog, Carbon Dioxide, or Dry Chemical.

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

**Specific hazards arising from the chemical**  
Vapors are heavier than air and may travel along ground or be moved by ventilation and ignited at locations distant from material handling point. Never use welding torch or cutting torch on or near drum (even empty) because product can ignite explosively.

**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

<table>
<thead>
<tr>
<th>NFPA</th>
<th>Health Hazard</th>
<th>Flammability</th>
<th>Stability</th>
<th>Physical and chemical hazards</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>-</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>HMIS</th>
<th>Health Hazard</th>
<th>Flammability</th>
<th>Physical Hazard</th>
<th>Personal protection</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>2</td>
<td>1</td>
<td>0</td>
<td>-</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**  
Dike to contain spill and prevent entry into sewers, waterways, and low areas. Soak up pooled liquids with a suitable absorbent (e.g., clay, fullers earth, etc.) Sweep up absorbed material and dispose of in a manner approved by local, state, and federal regulations. Flush spill area with water. Contains no phosphates

### 7. HANDLING AND STORAGE
Advice on safe handling: Handle in accordance with good industrial hygiene and safety practice.

Technical measures/Storage conditions: Store in a cool, well-ventilated area away from oxidizers, alkalies, heat, sparks, and open flame. Keep containers closed when not in use. Emptied containers can still be a hazard due to residual liquid and vapor.

**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 111-76-2</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>
</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>Odorless</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Odor Threshold</td>
<td></td>
<td></td>
<td>No information available</td>
</tr>
<tr>
<td>pH</td>
<td>13</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Melting/freezing point</td>
<td></td>
<td></td>
<td>No information available</td>
</tr>
<tr>
<td>Freezing Point</td>
<td></td>
<td></td>
<td>No information available</td>
</tr>
<tr>
<td>Boiling point/boiling range</td>
<td></td>
<td></td>
<td>No information available</td>
</tr>
<tr>
<td>Flash Point</td>
<td>&gt; 200 °F</td>
<td></td>
<td>No information available</td>
</tr>
<tr>
<td>Evaporation rate</td>
<td></td>
<td></td>
<td>No information available</td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td></td>
<td></td>
<td>No information available</td>
</tr>
<tr>
<td>Flammability Limits in Air</td>
<td></td>
<td></td>
<td>No information available</td>
</tr>
<tr>
<td>upper flammability limit</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>lower flammability limit</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Explosion Limits</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
1.00
No information available
Soluble in water
No information available
No information available
No information available
No information available
No information available
No information available
No information available
No information available
No information available
No information available

10. STABILITY AND REACTIVITY

Stable

Strong Oxidizers    Strong Alkalies

None known based on information supplied

May liberate carbon monoxide and carbon dioxide.

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)</td>
<td>2.21 mg/L (Rat) 4 h 450 ppm (Rat) 4 h</td>
</tr>
<tr>
<td>Sodium dodecylbenzenesulfonate</td>
<td>438 mg/kg (Rat)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Chronic toxicity

Can be fatal by overexposure.

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></td>
<td></td>
<td>1698 - 1940: 24 h Daphnia magna mg/L EC50 &gt;1000: 48 h Daphnia magna mg/L EC50</td>
</tr>
<tr>
<td>Sodium dodecylbenzenesulfonate</td>
<td>10.8: 96 h Oncorhynchus mykiss mg/L LC50 static</td>
<td></td>
<td></td>
<td></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

Note
Compounds, Cleaning Liquid-NOIBN

Dot
Proper shipping name
Compounds, Cleaning Liquid-NOIBN

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
TSCA                         TSCA
DSL                          Complies
NDSL                         Complies
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).

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

<table>
<thead>
<tr>
<th>Hazard Category</th>
<th>RQ</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.

<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 dodecylbenzenesulfonate</td>
<td>1000 lb</td>
<td>RQ 1000 lb final RQ RQ 454 kg final RQ</td>
<td></td>
</tr>
</tbody>
</table>

U.S. State Regulations

California Proposition 65

This product does not contain any Proposition 65 chemicals.

International Regulations

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

Issuing date: 28-Dec-2011
Revision Date: 03-May-2012
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