MATERIAL SAFETY DATA SHEET

1. Product and Company Identification

Product Name: LYSOL® HEALTHY TOUCH™ Antibacterial Hand Wash, All Scents

UPC CODES: Refer to Section 16

CAS #: Mixture

Product use: For hand washing to decrease bacteria on the skin.

Manufacturer: Reckitt Benckiser
Morris Corporate Center IV
399 Interpace Parkway
P.O. Box 225
Parsippany, NJ 07054-0225

In Case of Emergency:

North America: CHEMTREC: 1-800-424-9300
Outside North America: 1-703-527-3887

2. Hazards Identification

Emergency overview: Warnings: For external use only. When using this product: Avoid contact with eyes. In case of eye contact, flush with water. Stop use and ask a doctor if irritation or redness develops.

KEEP OUT OF REACH OF CHILDREN.

Potential short term health effects: Routes of exposure - Eye, Skin contact, Inhalation, Ingestion.

Eyes - None expected during normal conditions of use. May cause eye irritation upon direct contact with the eyes.

Skin - None expected during normal conditions of use. Not expected to be a skin sensitizer.

Inhalation - None expected during normal conditions of use.

Ingestion - Health injuries are not known or expected under normal use.


Chronic effects - The finished product is not expected to have chronic health effects.

Signs and symptoms - There are no hazards associated with this product in normal use.

3. Composition / Information on Ingredients

<table>
<thead>
<tr>
<th>Ingredient(s)</th>
<th>CAS #</th>
<th>Percent</th>
</tr>
</thead>
<tbody>
<tr>
<td>1-Dodecanamine, N,N-dimethyl-,N-oxide</td>
<td>1643-20-5</td>
<td>1 - 2.5</td>
</tr>
<tr>
<td>1-Hexadecanaminium, N,N,N-trimethyl-, chloride</td>
<td>112-02-7</td>
<td>1 - 2.5</td>
</tr>
<tr>
<td>Dodecanamide, N,N-bis(2-hydroxyethyl)-</td>
<td>120-40-1</td>
<td>1 - 2.5</td>
</tr>
<tr>
<td>Glycerol</td>
<td>56-81-5</td>
<td>1 - 2.5</td>
</tr>
<tr>
<td>Benzethonium Chloride</td>
<td>121-54-0</td>
<td>0.1 - 1</td>
</tr>
</tbody>
</table>
### 4. First Aid Measures

**First aid procedures**

<table>
<thead>
<tr>
<th>Eye contact</th>
<th>In case of eye contact, flush with water.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Skin contact</td>
<td>Product intended to be used on skin. Wash skin with water. If skin irritation persists, call a physician.</td>
</tr>
<tr>
<td>Inhalation</td>
<td>Move to fresh air.</td>
</tr>
<tr>
<td>Ingestion</td>
<td>If swallowed, get medical help or contact a poison control centre right away.</td>
</tr>
</tbody>
</table>

**Notes to physician**

- Treat patient symptomatically.

**General advice**

- If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance. Keep out of reach of children.

### 5. Fire Fighting Measures

**Flammable properties**

- Not flammable by OSHA criteria.

**Extinguishing media**

- **Suitable extinguishing media**
  - Treat for surrounding material.

- **Unsuitable extinguishing media**
  - Not available

**Protection of firefighters**

- **Specific hazards arising from the chemical**
  - Not available

- **Protective equipment for firefighters**
  - Firefighters should wear full protective clothing including self contained breathing apparatus.

**Hazardous combustion products**

- May include and are not limited to: Oxides of carbon. Oxides of nitrogen.

**Explosion data**

- **Sensitivity to mechanical impact**
  - Not available

- **Sensitivity to static discharge**
  - Not available

### 6. Accidental Release Measures

**Personal precautions**

- Ensure adequate ventilation.
- Avoid contact with eyes.

**Methods for containment**

- Stop leak if you can do so without risk. Prevent entry into waterways, sewers, basements or confined areas.

**Methods for cleaning up**

- Before attempting clean up, refer to hazard data given above. Small spills may be absorbed with non-reactive absorbent and placed in suitable, covered, labelled containers. Prevent large spills from entering sewers or waterways. Contact emergency services and supplier for advice. Never return spills in original containers for re-use.

### 7. Handling and Storage

**Handling**

- Use according to package label instructions.
- Avoid contact with eyes.
- For external use only.

**Storage**

- Store at room temperature in the original container.
- Keep out of reach of children.
8. Exposure Controls / Personal Protection

<table>
<thead>
<tr>
<th>Ingredient(s)</th>
<th>Exposure Limits</th>
</tr>
</thead>
<tbody>
<tr>
<td>1-Dodecanamine, N,N-dimethyl-,N-oxide</td>
<td>ACGIH-TLV: Not established</td>
</tr>
<tr>
<td></td>
<td>OSHA-PEL: Not established</td>
</tr>
<tr>
<td>1-Hexadecanaminium, N,N,N-trimethyl-, chloride</td>
<td>ACGIH-TLV: Not established</td>
</tr>
<tr>
<td></td>
<td>OSHA-PEL: Not established</td>
</tr>
<tr>
<td>Benzethonium Chloride</td>
<td>ACGIH-TLV: Not established</td>
</tr>
<tr>
<td></td>
<td>OSHA-PEL: Not established</td>
</tr>
<tr>
<td>Dodecanamide, N,N-bis(2-hydroxyethyl)-</td>
<td>ACGIH-TLV: Skin: 0.46 ppm</td>
</tr>
<tr>
<td></td>
<td>OSHA-PEL: Not established</td>
</tr>
<tr>
<td>Glycerol</td>
<td>ACGIH-TLV: TWA: 10 mg/m3</td>
</tr>
<tr>
<td></td>
<td>OSHA-PEL: TWA: 15 mg/m3</td>
</tr>
</tbody>
</table>

Engineering controls
Personal protective equipment

- **Eye / face protection**: Avoid contact with eyes. If splashes are likely to occur, wear: Wear safety glasses with side shields.
- **Hand protection**: No special requirements under normal use conditions.
- **Skin and body protection**: Follow label directions carefully.
- **Respiratory protection**: Not normally required under normal use conditions.
- **General hygiene considerations**: Handle in accordance with good industrial hygiene and safety practice.

9. Physical and Chemical Properties

- **Appearance**: aqueous solution
- **Color**: Blue, / Green, Green / Yellow
- **Form**: Liquid
- **Odor**: Characteristic
- **Odor threshold**: Not available
- **Physical state**: Liquid
- **pH**: 4.3 - 5.0
- **Freezing point**: Not available
- **Pour point**: Not available
- **Boiling point**: Not available
- **Flash point**: > 199.94 °F (> 93.3 °C)
- **Evaporation rate**: Not available
- **Flammability limits in air, lower, % by volume**: Not available
- **Flammability limits in air, upper, % by volume**: Not available
Vapor pressure Not available
Vapor density Not available
Specific gravity 0.98 - 1.04
Octanol/water coefficient Not available
Solubility (H2O) Complete
Auto-ignition temperature Not available
Viscosity Viscous

10. Stability and Reactivity

Chemical stability Stable under recommended storage conditions.
Conditions to avoid Do not mix with other chemicals. Excessive heat.
Incompatible materials Do not mix with anything but water.
Hazardous decomposition products May include and are not limited to: Oxides of carbon. Oxides of nitrogen.
Possibility of hazardous reactions Hazardous polymerization does not occur.

11. Toxicological Information

Component analysis - LC50
Ingredient(s) LC50
1-Dodecanamine, N,N-dimethyl-,N-oxide Not available
1-Hexadecanaminium, N,N,N-trimethyl-, chloride Not available
Benzethonium Chloride Not available
Dodecanamide, N,N-bis(2-hydroxyethyl)- Not available
Glycerol Not available

Component analysis - Oral LD50
Ingredient(s) LD50
1-Dodecanamine, N,N-dimethyl-,N-oxide 2700 mg/kg mouse
1-Hexadecanaminium, N,N,N-trimethyl-, chloride 475 mg/kg rat
Benzethonium Chloride 368 mg/kg rat
Dodecanamide, N,N-bis(2-hydroxyethyl)- 2700 mg/kg rat
Glycerol Not available

Effects of acute exposure
Eye None expected during normal conditions of use. May cause eye irritation upon direct contact with the eyes.
Skin None expected during normal conditions of use. Not expected to be a skin sensitizer.
Inhalation None expected during normal conditions of use.
Ingestion Health injuries are not known or expected under normal use.
Sensitization The finished product is not expected to have chronic health effects.
Chronic effects The finished product is not expected to have chronic health effects.
Carcinogenicity The finished product is not expected to have chronic health effects.
Mutagenicity The finished product is not expected to have chronic health effects.
Reproductive effects The finished product is not expected to have chronic health effects.
Teratogenicity The finished product is not expected to have chronic health effects.
Synergistic Materials Not available
## 12. Ecological Information

<table>
<thead>
<tr>
<th>Ecotoxicity</th>
<th>See below</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Ecotoxicity - Freshwater Fish Species Data</strong></td>
<td></td>
</tr>
<tr>
<td>Glycerol</td>
<td>56-81-5</td>
</tr>
<tr>
<td>96 Hr LC50 Oncorhynchus mykiss: 51-57 ml/L [static]</td>
<td></td>
</tr>
<tr>
<td><strong>Ecotoxicity - Microtox Data</strong></td>
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</tr>
<tr>
<td>1-Hexadecanaminium, N,N,N-trimethyl-, chloride</td>
<td>112-02-7</td>
</tr>
<tr>
<td>Ecotoxicity - Water Flea Data</td>
<td></td>
</tr>
<tr>
<td>Glycerol</td>
<td>56-81-5</td>
</tr>
<tr>
<td>24 Hr EC50 Daphnia magna: &gt;500 mg/L</td>
<td></td>
</tr>
</tbody>
</table>

### Environmental effects
- Not available

### Aquatic toxicity
- Not available

### Persistence / degradability
- Not available

### Bioaccumulation / accumulation
- Not available

### Partition coefficient
- Not available

### Mobility in environmental media
- Not available

### Chemical fate information
- Not available

## 13. Disposal Considerations

<table>
<thead>
<tr>
<th>Waste codes</th>
<th>Not available</th>
</tr>
</thead>
<tbody>
<tr>
<td>Disposal instructions</td>
<td>Disposal in accordance with all applicable regulations. Hand soap system packaging and refill bottle are recyclable.</td>
</tr>
<tr>
<td>Waste from residues / unused products</td>
<td>Not available</td>
</tr>
<tr>
<td>Contaminated packaging</td>
<td>Not available</td>
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</tbody>
</table>

## 14. Transport Information

<table>
<thead>
<tr>
<th>UN/ID N.o.</th>
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</thead>
<tbody>
<tr>
<td>U.S. Department of Transportation (DOT): Classification:</td>
<td>Not regulated</td>
</tr>
<tr>
<td>Proper shipping name</td>
<td>Not applicable</td>
</tr>
<tr>
<td>U.S. DOT Hazard Class</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Subsidiary Risk</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Packing group</td>
<td>Not applicable</td>
</tr>
<tr>
<td>DOT RQ (lbs)</td>
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</tr>
<tr>
<td>ERG NO</td>
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</tbody>
</table>

Transportation of Dangerous Goods (TDG - Canada): Classification: Not regulated

<table>
<thead>
<tr>
<th>Proper shipping name</th>
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</thead>
<tbody>
<tr>
<td>Status</td>
<td>Not applicable</td>
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<tr>
<td>Packing group</td>
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</tbody>
</table>
### IMDG (Marine Transport): Classification

<table>
<thead>
<tr>
<th>Category</th>
<th>Classification</th>
<th>Details</th>
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</thead>
<tbody>
<tr>
<td>Proper shipping name</td>
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<td></td>
</tr>
<tr>
<td>Class</td>
<td>Not applicable</td>
<td></td>
</tr>
<tr>
<td>Subsidiary Risk</td>
<td>Not applicable</td>
<td></td>
</tr>
<tr>
<td>Packing group</td>
<td>Not applicable</td>
<td></td>
</tr>
<tr>
<td>IMDG Page</td>
<td>Not applicable</td>
<td></td>
</tr>
<tr>
<td>Marine pollutant</td>
<td>Not applicable</td>
<td></td>
</tr>
<tr>
<td>EMS</td>
<td>Not applicable</td>
<td></td>
</tr>
<tr>
<td>MFAG</td>
<td>Not applicable</td>
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</tr>
<tr>
<td>Maximum Quantity</td>
<td>Not applicable</td>
<td></td>
</tr>
</tbody>
</table>

### IATA/ICAO (Air): Classification

<table>
<thead>
<tr>
<th>Category</th>
<th>Classification</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Proper shipping name</td>
<td>Not applicable</td>
<td></td>
</tr>
<tr>
<td>Class</td>
<td>Not applicable</td>
<td></td>
</tr>
<tr>
<td>Subsidiary Risk</td>
<td>Not applicable</td>
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<tr>
<td>Packing group</td>
<td>Not applicable</td>
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</tr>
<tr>
<td>Maximum Quantity</td>
<td>Not applicable</td>
<td></td>
</tr>
</tbody>
</table>

## 15. Regulatory Information

**US Federal regulations**  
This product is NOT known to be a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200. All components are on the U.S. EPA TSCA Inventory List.

**Product Registration:**  
Registered with FDA

**Occupational Safety and Health Administration (OSHA)**  
29 CFR 1910.1200 hazardous chemical

No

**Superfund Amendments and Reauthorization Act of 1986 (SARA)**

<table>
<thead>
<tr>
<th>Hazard categories</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Immediate Hazard</td>
<td>No</td>
</tr>
<tr>
<td>Delayed Hazard</td>
<td>No</td>
</tr>
<tr>
<td>Fire Hazard</td>
<td>No</td>
</tr>
<tr>
<td>Pressure Hazard</td>
<td>No</td>
</tr>
<tr>
<td>Reactivity Hazard</td>
<td>No</td>
</tr>
</tbody>
</table>

No

**Section 302 extremely hazardous substance**  
No

**Section 311 hazardous chemical**  
No

**Clean Air Act (CAA)**  
Not available

**Clean Water Act (CWA)**  
Not available
State regulations

U.S. - Massachusetts - Right To Know List
Glycerol 56-81-5 Present (mist)

U.S. - Minnesota - Hazardous Substance List
Glycerol 56-81-5 Present (mist)

U.S. - New Jersey - Right to Know Hazardous Substance List
Glycerol 56-81-5 sn 3319

U.S. - Pennsylvania - RTK (Right to Know) List
Glycerol 56-81-5 Present

U.S. - Rhode Island - Hazardous Substance List
Glycerol 56-81-5 Toxic; Flammable

Inventory status

<table>
<thead>
<tr>
<th>Country(s) or region</th>
<th>Inventory name</th>
<th>On inventory (yes/no)*</th>
</tr>
</thead>
<tbody>
<tr>
<td>United States &amp; Puerto Rico</td>
<td>Toxic Substances Control Act (TSCA) Inventory</td>
<td>Yes</td>
</tr>
</tbody>
</table>

A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

16. Other Information

Disclaimer
This product should only be used as directed on the label and for the purpose intended. To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

Further information

0-190652-9 - LYSOL® HEALTHY TOUCH™ Hand Soap - Refill Cleansing Green Tea & Ginger - 8.5 oz. - 0231422

0-190652-6 - LYSOL® HEALTHY TOUCH™ Hand Soap - Refill Refreshing Grapefruit Essence - 8.5 oz. - 0231423

0-190622-8 - LYSOL® HEALTHY TOUCH™ Hand Soap - Refill Soothing Cucumber Splash - 8.5 oz. - 0231421

0-190652-9 - LYSOL® HEALTHY TOUCH™ Hand Soap - System Cleansing Green Tea & Ginger - 8.5 oz. - 0231422

0-190612-1 - LYSOL® HEALTHY TOUCH™ Hand Soap - System Soothing Cucumber Splash - System - 0231421

Issue date
09-Feb-2010

Effective date
01-Feb-2010

Prepared by
Reckitt Benckiser Regulatory Department 800-333-3899

Other information
For an updated MSDS, please contact the supplier/manufacturer listed on the first page of the document.