MATERIAL SAFETY DATA SHEET

1. Product and Company Identification

Product Name: LYSOL® Touch of Foam™ Antibacterial Hand wash, All Scents
CAS #: Mixture
Product use: Liquid Hand Soap
Distributed by: Reckitt Benckiser
Morris Corporate Center IV
399 Interpace Parkway
P.O. Box 225
Parsippany, NJ 07054-0225
In Case of Emergency: 1-800-338-6167
Transportation Emergencies: 24 Hour Number:
North America: CHEMTREC: 1-800-424-9300
Outside North America: 1-703-527-3887

LEGEND
HMIS/NFPA

<table>
<thead>
<tr>
<th>Health</th>
<th>Flammability</th>
<th>Physical Hazard</th>
<th>Personal Protection</th>
</tr>
</thead>
<tbody>
<tr>
<td>Severe</td>
<td>4</td>
<td>0</td>
<td>A</td>
</tr>
<tr>
<td>Serious</td>
<td>3</td>
<td>0</td>
<td></td>
</tr>
<tr>
<td>Moderate</td>
<td>2</td>
<td>0</td>
<td></td>
</tr>
<tr>
<td>Slight</td>
<td>1</td>
<td>0</td>
<td></td>
</tr>
<tr>
<td>Minimal</td>
<td>0</td>
<td>0</td>
<td></td>
</tr>
</tbody>
</table>

2. Hazards Identification

Emergency overview
This product is regulated by the US FDA as an over-the-counter, monograph drug.
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.
If swallowed, get medical help or contact a Poison Control Center right away.

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.

Target organs
Eyes. Respiratory system. Skin.

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.

OSHA Regulatory Status
This product is a “Hazardous Chemical” as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

Potential environmental effects
See section 12.

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>Glycerin</td>
<td>56-81-5</td>
<td>1 - 2.5</td>
</tr>
<tr>
<td>Alkyl benzyl dimethyl ammonium chloride</td>
<td>68424-85-1</td>
<td>0.1 - 1</td>
</tr>
</tbody>
</table>
4. First Aid Measures

First aid procedures

Eye contact
Avoid contact with eyes. In case of eye contact, flush with water. Get medical attention immediately.

Skin contact
Stop use and ask a doctor if irritation or redness develops.

Inhalation
Move exposed person to fresh air. Get medical attention immediately.

Ingestion
If swallowed, get medical help or contact a poison control center right away. Wash out mouth with water.

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. Avoid inhalation of vapors or mists.

Environmental precautions
Do not discharge into lakes, streams, ponds or public waters. Inform the relevant authorities if the product has caused environmental pollution.

Methods for containment
Stop leak if you can do so without risk. Prevent entry into waterways, sewers, basements or confined areas. Use appropriate containment to avoid environmental contamination.

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 to original containers for re-use.

7. Handling and Storage

Handling
Use according to package label instructions.
Avoid contact with eyes.
Do not ingest.
For external use only.

Storage
Store in original container in a cool, secure area inaccessible to children and pets.
Store at room temperature (68-77°F)(20-25°C).
Keep container protected from direct sunlight, in a dry, cool, well ventilated area, and away from food and drink.
Store in a tightly closed container.
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</td>
</tr>
<tr>
<td></td>
<td>Not established</td>
</tr>
<tr>
<td></td>
<td>OSHA-PEL</td>
</tr>
<tr>
<td></td>
<td>Not established</td>
</tr>
<tr>
<td>Alkyl benzyl dimethyl ammonium chloride</td>
<td>ACGIH-TLV</td>
</tr>
<tr>
<td></td>
<td>Not established</td>
</tr>
<tr>
<td></td>
<td>OSHA-PEL</td>
</tr>
<tr>
<td></td>
<td>Not established</td>
</tr>
<tr>
<td>Glycerin</td>
<td>ACGIH-TLV</td>
</tr>
<tr>
<td></td>
<td>TWA: 10 mg/m³</td>
</tr>
<tr>
<td></td>
<td>OSHA-PEL</td>
</tr>
<tr>
<td></td>
<td>TWA: 15 mg/m³</td>
</tr>
</tbody>
</table>

Engineering controls

- General ventilation normally adequate.

Personal protective equipment

- **Eye / face protection**
  - Avoid contact with eyes.
  - If splashes are likely to occur, wear:
    - Safety glasses with side-shields.

- **Hand protection**
  - No special requirements under normal use conditions.

- **Skin and body protection**
  - Usual safety precautions while handling the product will provide adequate protection against injury or irritation.
  - 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

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Liquid</td>
</tr>
<tr>
<td>Color</td>
<td>Red, Purple, Blue</td>
</tr>
<tr>
<td>Form</td>
<td>Liquid</td>
</tr>
<tr>
<td>Odor</td>
<td>Characteristic</td>
</tr>
<tr>
<td>Odor threshold</td>
<td>Not available</td>
</tr>
<tr>
<td>Physical state</td>
<td>Liquid</td>
</tr>
<tr>
<td>pH</td>
<td>4.8 - 5.5</td>
</tr>
<tr>
<td>Freezing point</td>
<td>Not available</td>
</tr>
<tr>
<td>Boiling point</td>
<td>Not available</td>
</tr>
<tr>
<td>Pour point</td>
<td>Not available</td>
</tr>
<tr>
<td>Evaporation rate</td>
<td>Not available</td>
</tr>
<tr>
<td>Flash point</td>
<td>&gt; 199.94 °F (&gt; 93.3 °C)</td>
</tr>
<tr>
<td>Auto-ignition temperature</td>
<td>Not available</td>
</tr>
<tr>
<td>Flammability limits in air, lower, % by volume</td>
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</tr>
<tr>
<td>Flammability limits in air, upper, % by volume</td>
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</tr>
<tr>
<td>Vapor pressure</td>
<td>Not available</td>
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<tr>
<td>Vapor density</td>
<td>Not available</td>
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<tr>
<td>Specific gravity</td>
<td>0.98 - 1.04</td>
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<tr>
<td>Octanol/water coefficient</td>
<td>Not available</td>
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<tr>
<td>Solubility (H2O)</td>
<td>Complete</td>
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</table>
10. Stability and Reactivity

Reactivity
This product may react with strong oxidizing agents.

Possibility of hazardous reactions
This product may react with strong oxidizing agents. Hazardous polymerization does not occur.

Chemical stability
Stable under recommended storage conditions.

Conditions to avoid
Do not mix with other chemicals. Excessive heat. Exposure to moisture. Keep from freezing.

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.

11. Toxicological Information

Component analysis - LC50

<table>
<thead>
<tr>
<th>Ingredient(s)</th>
<th>LC50</th>
</tr>
</thead>
<tbody>
<tr>
<td>1-Dodecanamine, N,N-dimethyl-,N-oxide</td>
<td>Not available</td>
</tr>
<tr>
<td>Alkyl benzyl dimethyl ammonium chloride</td>
<td>Not available</td>
</tr>
<tr>
<td>Glycerin</td>
<td>Not available</td>
</tr>
</tbody>
</table>

Component analysis - Oral LD50

<table>
<thead>
<tr>
<th>Ingredient(s)</th>
<th>LD50</th>
</tr>
</thead>
<tbody>
<tr>
<td>1-Dodecanamine, N,N-dimethyl-,N-oxide</td>
<td>2700 mg/kg mouse</td>
</tr>
<tr>
<td>Alkyl benzyl dimethyl ammonium chloride</td>
<td>426 mg/kg rat</td>
</tr>
<tr>
<td>Glycerin</td>
<td>Not available</td>
</tr>
</tbody>
</table>

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.

Name of Toxicologically Synergistic Products
Not available

12. Ecological Information

Ecotoxicity
See below

Ecotoxicity - Freshwater Fish - Acute Toxicity Data
Glycerin 56-81-5 96 Hr LC50 Oncorhynchus mykiss: 51 - 57 mL/L [static]

Ecotoxicity - Water Flea - Acute Toxicity Data
Glycerin 56-81-5 24 Hr EC50 Daphnia magna: >500 mg/L

Persistence / degradability
Not available

Bioaccumulation / accumulation
Not available

Mobility in environmental media
Not available

Environmental effects
Not available

Aquatic toxicity
Not available

Partition coefficient
Not available

Chemical fate information
Not available
### 13. Disposal Considerations

**Disposal instructions**
- Dispose in accordance with all applicable regulations.
- Do not reuse container.
- Hand soap system packaging and refill bottle are recyclable.

**Waste from residues / unused products**
- Dispose in accordance with all applicable regulations.

**Contaminated packaging**
- Empty container can be disposed of as household trash or rinsed and recycled where appropriate.

### 14. Transport Information

**UN/ID N.o.**
- Not applicable

**U.S. Department of Transportation (DOT): Classification**
- Not regulated
  - **Proper shipping name**: Not applicable
  - **U.S. DOT Hazard Class**: Not applicable
  - **Subsidiary Risk**: Not applicable
  - **Packing group**: Not applicable
  - **DOT RQ (lbs)**: Not applicable
  - **ERG NO**: Not applicable

**Transportation of Dangerous Goods (TDG - Canada): Classification**
- Not regulated
  - **Proper shipping name**: Not applicable
  - **Status**: Not applicable
  - **Packing group**: Not applicable

**IMDG (Marine Transport): Classification**
- Not regulated
  - **Proper shipping name**: Not applicable
  - **Class**: Not applicable
  - **Subsidiary Risk**: Not applicable
  - **Packing group**: Not applicable
  - **IMDG Page**: Not applicable
  - **Marine pollutant**: Not applicable
  - **EMS**: Not applicable
  - **MFAG**: Not applicable
  - **Maximum Quantity**: Not applicable
IATA/ICAO (Air): Classification: Not regulated
Proper shipping name: Not applicable
Class: Not applicable
Subsidiary Risk: Not applicable
Packing group: Not applicable
Maximum Quantity: Not applicable

15. Regulatory Information

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

US Federal regulations
This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.
Product Registration: Registered with FDA
All components of this product are either on the TSCA Inventory, or are exempt from TSCA Inventory.

CERCLA (Superfund) reportable quantity
Formic acid: 5000.0000

Superfund Amendments and Reauthorization Act of 1986 (SARA)
Hazard categories
Immediate Hazard - Yes
Delayed Hazard - No
Fire Hazard - No
Pressure Hazard - No
Reactivity Hazard - No
Section 302 extremely hazardous substance: No
Section 311 hazardous chemical: Yes

Clean Air Act (CAA): Not available
Clean Water Act (CWA): Not available

State regulations
See below

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

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

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

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

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

Inventory status
Country(s) or region
United States & Puerto Rico
Inventory name
Toxic Substances Control Act (TSCA) Inventory
On inventory (yes/no)*
Yes

A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)
<table>
<thead>
<tr>
<th>16. Other Information</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Disclaimer</strong></td>
</tr>
<tr>
<td><strong>Further information</strong></td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td><strong>Issue date</strong></td>
</tr>
<tr>
<td><strong>Effective date</strong></td>
</tr>
<tr>
<td><strong>Prepared by</strong></td>
</tr>
<tr>
<td><strong>Other information</strong></td>
</tr>
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