1. Product and Company Identification

Product Name: LYSOL® Brand II (Kills 99.9% of Viruses & Bacteria) Antibacterial Kitchen Cleaner Complete Clean

UPC CODES: Refer to Section 16

CAS #: Mixture

Product use: Disinfectant

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

In Case of Emergency: 1-800-228-4722
Transportation Emergencies: 24 Hour Number:
North America: CHEMTREC: 1-800-424-9300
Outside North America: 1-703-527-3887

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2. Hazards Identification

Emergency overview: This product is regulated by the US EPA as a disinfectant.

PRECAUTIONARY STATEMENTS: Hazards to humans and domestic animals.

WARNING
Causes substantial but temporary eye injury. Do not get in eyes, on skin or on clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum or using tobacco. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals.

KEEPOUT OF REACH OF CHILDREN.

Potential short term health effects

Routes of exposure: Eye, Skin contact, Inhalation, Ingestion.

Eyes: May cause eye irritation.

Skin: Non-irritating to the skin. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals.

Inhalation: None expected during normal conditions of use.

Ingestion: None expected during normal conditions of use. Not orally toxic.

Target organs: Skin. Eyes.

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

Signs and symptoms: Symptoms may include redness, edema, drying, defatting and cracking of the skin. Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting.
3. Composition / Information on Ingredients

<table>
<thead>
<tr>
<th>Ingredient(s)</th>
<th>CAS #</th>
<th>Percent</th>
</tr>
</thead>
<tbody>
<tr>
<td>Alkyl (50%C14, 40%C12, 10%C16) dimethyl benzyl ammonium chlorides</td>
<td>68424-85-1</td>
<td>0 - 0.1</td>
</tr>
<tr>
<td>Alkyl (67% C12, 25% C14, 7%C16, 1%C8-C10-C18) dimethyl benzyl ammonium chlorides</td>
<td>63449-41-2</td>
<td>0 - 0.1</td>
</tr>
</tbody>
</table>

4. First Aid Measures

**First aid procedures**

**Eye contact**
Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.

**Skin contact**
In keeping with good hygienic practices, wash exposed areas thoroughly with soap and water.

**Inhalation**
Remove to fresh air.

**Ingestion**
Rinse mouth with water. Contact a physician or poison control center if symptoms develop. NEVER give an unconscious person anything to ingest.

**Notes to physician**
Symptoms may be delayed.

**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. Avoid contact with eyes and skin. Keep out of reach of children.

5. Fire Fighting Measures

**Flammable properties**
Not flammable by OSHA criteria.

**Extinguishing media**

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 nitrogen. Oxides of carbon.

**Explosion data**
Sensitivity to mechanical impact: Not available

Sensitivity to static discharge: Not available

6. Accidental Release Measures

**Personal precautions**
Keep unnecessary personnel away. Do not touch or walk through spilled material. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Keep people away from and upwind of spill/leak.

**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**
CAUTION
May cause eye irritation. Avoid contact with eyes. Use good industrial hygiene practices in handling this material. When using do not eat or drink.

**Storage**
Keep in properly labelled containers. Store in areas inaccessible to small children. Keep securely closed. Refillable. Refill trigger bottle only with this product. If not refilling, discard in trash or offer for recycle. Do not reuse this trigger for any other purpose.
### 8. Exposure Controls / Personal Protection

<table>
<thead>
<tr>
<th>Ingredient(s)</th>
<th>Exposure Limits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Alkyl (50%C14, 40%C12, 10%C16) dimethyl benzyl ammonium chlorides</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 (67% C12, 25% C14, 7%C16, 1%C8-C10-C18) dimethyl benzyl ammonium</td>
<td>ACGIH-TLV</td>
</tr>
<tr>
<td>chlorides</td>
<td>Not established</td>
</tr>
<tr>
<td></td>
<td>OSHA-PEL</td>
</tr>
<tr>
<td></td>
<td>Not established</td>
</tr>
</tbody>
</table>

**Engineering controls**

General ventilation normally adequate.

**Personal protective equipment**

- **Eye / face protection**
  - Avoid contact with eyes. If splashing is likely to occur or for occupational exposures, wear appropriate eye protection.
  - Emergency responders should wear full eye and face protection.

- **Hand protection**
  - For sensitive skin or prolonged use, wear rubber gloves.
  - Emergency responders should wear impermeable gloves.

- **Skin and body protection**
  - As required by employer code.
  - Emergency responders should wear impermeable clothing and footwear when responding to a situation where contact with the liquid is possible.

- **Respiratory protection**
  - No special requirements under normal use conditions.
  - Emergency responders should wear self-contained breathing apparatus (SCBA) to avoid inhalation of vapours generated by this product during a spill or other clean-up operations.

- **General hygiene considerations**
  - Handle in accordance with good industrial hygiene and safety practice. When using do not eat or drink. Washing with soap and water after use is recommended as good hygienic practice to prevent possible eye irritation from hand contact.

### 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>Water white</td>
</tr>
<tr>
<td>Form</td>
<td>aqueous solution</td>
</tr>
<tr>
<td>Odor</td>
<td>Lemon</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>11.3 (Basic)</td>
</tr>
<tr>
<td>Freezing point</td>
<td>Not available</td>
</tr>
<tr>
<td>Pour point</td>
<td>Not available</td>
</tr>
<tr>
<td>Boiling point</td>
<td>Not available</td>
</tr>
<tr>
<td>Flash point</td>
<td>&gt; 199.94 °F (&gt; 93.3 °C) Tagliabue</td>
</tr>
<tr>
<td>Evaporation rate</td>
<td>Not available</td>
</tr>
<tr>
<td>Flammability limits in air, lower, % by volume</td>
<td>Not available</td>
</tr>
<tr>
<td>Flammability limits in air, upper, % by volume</td>
<td>Not available</td>
</tr>
<tr>
<td>Vapor pressure</td>
<td>Not available</td>
</tr>
<tr>
<td>Vapor density</td>
<td>Not available</td>
</tr>
<tr>
<td>Specific gravity</td>
<td>1.0 (Water = 1)</td>
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<td>Octanol/water coefficient</td>
<td>Not available</td>
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<tr>
<td>Solubility (H2O)</td>
<td>Complete</td>
</tr>
<tr>
<td>Auto-ignition temperature</td>
<td>Not available</td>
</tr>
</tbody>
</table>
10. Stability and Reactivity

Chemical stability:
Stable under recommended storage conditions.

Conditions to avoid:
DO NOT MIX WITH BLEACH or use in conjunction with other household products. Excessive heat.

Incompatible materials:
Acids. Oxidizers.

Hazardous decomposition products:
May include and are not limited to: Oxides of nitrogen. Oxides of carbon.

Possibility of hazardous reactions:
Hazardous polymerization does not occur.

11. Toxicological Information

Component analysis - LC50

<table>
<thead>
<tr>
<th>Ingredient(s)</th>
<th>LC50</th>
</tr>
</thead>
<tbody>
<tr>
<td>Alkyl (50%C14, 40%C12, 10%C16) dimethyl benzyl ammonium chlorides</td>
<td>Not available</td>
</tr>
<tr>
<td>Alkyl (67% C12, 25% C14, 7%C16, 1%C8-C10-C18) dimethyl benzyl ammonium chlorides</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>Alkyl (50%C14, 40%C12, 10%C16) dimethyl benzyl ammonium chlorides</td>
<td>426 mg/kg rat</td>
</tr>
<tr>
<td>Alkyl (67% C12, 25% C14, 7%C16, 1%C8-C10-C18) dimethyl benzyl ammonium chlorides</td>
<td>Not available</td>
</tr>
</tbody>
</table>

Effects of acute exposure:

Eye: May cause eye irritation.
Skin: Non-irritating to the skin. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals.
Inhalation: None expected during normal conditions of use.
Ingestion: None expected during normal conditions of use. Not orally toxic.
Sensitization: Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals.

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

Ecotoxicity:
Not available
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

Waste codes:
Not available
Disposal instructions:
Dispose in accordance with all applicable regulations.
Waste from residues / unused products:
Not available
Contaminated packaging:
Not available
### 14. Transport Information

<table>
<thead>
<tr>
<th>UN/ID N.o.</th>
<th>Not applicable</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>U.S. Department of Transportation (DOT):</strong> 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>
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<tr>
<td>DOT RQ (lbs)</td>
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<tr>
<td>ERG NO</td>
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<tr>
<td><strong>Transportation of Dangerous Goods (TDG - Canada):</strong> Classification:</td>
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<tr>
<td>Proper shipping name</td>
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<tr>
<td>Status</td>
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<tr>
<td>Packing group</td>
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<tr>
<td><strong>IMDG (Marine Transport):</strong> Classification:</td>
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<tr>
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<tr>
<td>Class</td>
<td>Not applicable</td>
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<tr>
<td>Subsidiary Risk</td>
<td>Not applicable</td>
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<tr>
<td>Packing group</td>
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</tr>
<tr>
<td>IMDG Page</td>
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<tr>
<td>Marine pollutant</td>
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</tr>
<tr>
<td>EMS</td>
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<tr>
<td>MFAG</td>
<td>Not applicable</td>
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<tr>
<td>Maximum Quantity</td>
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<tr>
<td><strong>IATA/ICAO (Air):</strong> Classification:</td>
<td>Not regulated</td>
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<tr>
<td>Proper shipping name</td>
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<td>Class</td>
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<tr>
<td>Subsidiary Risk</td>
<td>Not applicable</td>
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<tr>
<td>Packing group</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Maximum Quantity</td>
<td>Not applicable</td>
</tr>
</tbody>
</table>
15. Regulatory Information

US Federal regulations
This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200 due to the presence of listed sensitizers. CERCLA/SARA Hazardous Substances - Not applicable.

Product Registration: Registered with EPA, EPA Reg. No. 777-91

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

CERCLA (Superfund) reportable quantity
None

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

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
Not applicable

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
19200-00888-4- LYSOL® Brand II (Kills 99.9% of Viruses & Bacteria) Antibacterial Kitchen Cleaner Complete Clean - 22 oz. - Citrus Scent - 0160711

Issue date
09-Jul-2010

Effective date
01-Jun-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.