1. Product and Company Identification

Product Name: LYSOL® Dual Action Disinfecting Wipes (all sizes, all scents)
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: 1-800-338-6167
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>4</td>
<td>0</td>
<td>0</td>
<td>A</td>
</tr>
</tbody>
</table>

2. Hazards Identification

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

PRECAUTIONARY STATEMENTS: Hazards to humans and domestic animals.

CAUTION
MAY CAUSE EYE IRRITATION. Avoid contact with eyes. Wash hands after use.
KEEP OUT OF REACH OF CHILDREN.

Potential short term health effects

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

Eyes
May cause eye irritation.

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

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.

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>Ethanol</td>
<td>64-17-5</td>
<td>2.5 - 10</td>
</tr>
<tr>
<td>Alkyl (50%C14, 40%C12, 10%C16) dimethyl benzyl ammonium chlorides</td>
<td>Not Applicable</td>
<td>0.1 - 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
Wash hands thoroughly after handling. If skin irritation persists, call a physician.

Inhalation
Move to fresh air.

Ingestion
Rinse mouth with water. Do not induce vomiting. Never give anything by mouth to an unconscious person. Call a physician or Poison Control Center IMMEDIATELY.

Notes to physician
Wipes are saturated with a solution containing less than 3% denatured ethyl alcohol.

General advice
Keep away from sources of ignition. No smoking. 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.

Follow label directions carefully.

5. Fire Fighting Measures

Flammable properties
The flashpoint of the liquid within this product is > 93.3°C (200°F) (Tagliabue).

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
Avoid contact with eyes. 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.

Environmental precautions
Do not discharge into lakes, streams, ponds or public waters.

Methods for containment
Do not allow product to enter sewer or waterways.

Methods for cleaning up
Remove sources of ignition. Never return spills to original containers for re-use.

Other information
Pick up and discard towel.

7. Handling and Storage

Handling
Avoid contact with eyes. Wash hands after handling and before eating. Use good industrial hygiene practices in handling this material. Food contact surfaces must be rinsed with potable water. Not recommended for polished or bare wood floors. Not intended for personal hygiene.

Storage
Store in original container out of reach of small children. Keep securely closed in a cool, well ventilated area. Do not reuse empty container. Rinse and discard or recycle. Do not store at temperatures above 120°F (49°C).

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.
### 8. Exposure Controls / Personal Protection

<table>
<thead>
<tr>
<th>Exposure limits 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>
</tbody>
</table>

| Ethanol                                                                                      | ACGIH-TLV       |
|                                                                                             | TWA: 1000 ppm   |
|                                                                                             | STEL: 1000 ppm  |
|                                                                                             | OSHA-PEL        |
|                                                                                             | TWA: 1000 ppm   |

#### Engineering controls

**General ventilation normally adequate.**

#### Personal protective equipment

| Eye / face protection | Avoid contact with eyes. Emergency responders should wear full eye and face protection. |
| Hand protection       | Wash hands after use. 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 | Not normally required 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><strong>Appearance</strong></td>
<td>Liquid saturated on wipe</td>
</tr>
<tr>
<td><strong>Color</strong></td>
<td>clear liquid</td>
</tr>
<tr>
<td><strong>Form</strong></td>
<td>Pre-moistened towelette.</td>
</tr>
<tr>
<td><strong>Odor</strong></td>
<td>Various</td>
</tr>
<tr>
<td><strong>Odor threshold</strong></td>
<td>Not available</td>
</tr>
<tr>
<td><strong>Physical state</strong></td>
<td>Not available</td>
</tr>
<tr>
<td><strong>pH</strong></td>
<td>9.9 - 11 (Liquid)</td>
</tr>
<tr>
<td><strong>Freezing point</strong></td>
<td>Not available</td>
</tr>
<tr>
<td><strong>Boiling point</strong></td>
<td>Not available</td>
</tr>
<tr>
<td><strong>Pour point</strong></td>
<td>Not available</td>
</tr>
<tr>
<td><strong>Evaporation rate</strong></td>
<td>Not available</td>
</tr>
<tr>
<td><strong>Flash point</strong></td>
<td>&gt; 200 °F (&gt; 93.33 °C) (Liquid) Tagliabue</td>
</tr>
<tr>
<td><strong>Auto-ignition temperature</strong></td>
<td>Not available</td>
</tr>
<tr>
<td><strong>Flammability limits in air, lower, % by volume</strong></td>
<td>Not available</td>
</tr>
<tr>
<td><strong>Flammability limits in air, upper, % by volume</strong></td>
<td>Not available</td>
</tr>
<tr>
<td><strong>Vapor pressure</strong></td>
<td>Not available</td>
</tr>
<tr>
<td><strong>Vapor density</strong></td>
<td>Not available</td>
</tr>
<tr>
<td><strong>Specific gravity</strong></td>
<td>0.97 - 1 (Liquid)</td>
</tr>
<tr>
<td><strong>Octanol/water coefficient</strong></td>
<td>Not available</td>
</tr>
<tr>
<td><strong>Solubility (H2O)</strong></td>
<td>Wipe is not soluble</td>
</tr>
</tbody>
</table>
10. Stability and Reactivity

This product may react with strong oxidizing agents.

Hazardous polymerization does not occur.

Stable under recommended storage conditions.

DO NOT MIX WITH BLEACH or use in conjunction with other household products. Heat, open flames, static discharge, sparks and other ignition sources.

Oxidizers.

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>Alkyl (50%C14, 40%C12, 10%C16) dimethyl benzyl</td>
<td>Not available</td>
</tr>
<tr>
<td>ammonium chlorides</td>
<td></td>
</tr>
<tr>
<td>Ethanol</td>
<td>31623 ppm rat</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</td>
<td>426 mg/kg rat</td>
</tr>
<tr>
<td>ammonium chlorides</td>
<td></td>
</tr>
<tr>
<td>Ethanol</td>
<td>3450 mg/kg mouse; 7060 mg/kg rat</td>
</tr>
</tbody>
</table>

Effects of acute exposure

**Eye**
May cause eye irritation.

**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.

ACGIH - Threshold Limit Values - Carcinogens

| Ethanol | 64-17-5 | A3 - Confirmed Animal Carcinogen with Unknown Relevance to Humans |

**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

Components of this product have been identified as having potential environmental concerns.

**Ecotoxicity - Freshwater Fish - Acute Toxicity Data**

<table>
<thead>
<tr>
<th>Ethanol</th>
<th>64-17-5</th>
</tr>
</thead>
</table>

96 Hr LC50 Oncorhynchus mykiss: 12.0 - 16.0 mL/L [static]; 96 Hr LC50 Pimephales promelas: >100 mg/L [static]; 96 Hr LC50 Pimephales promelas: 13400 - 15100 mg/L [flow-through]

**Ecotoxicity - Water Flea - Acute Toxicity Data**

<table>
<thead>
<tr>
<th>Ethanol</th>
<th>64-17-5</th>
</tr>
</thead>
</table>

48 Hr LC50 Daphnia magna: 9268 - 14221 mg/L; 24 Hr EC50 Daphnia magna: 10800 mg/L; 48 Hr EC50 Daphnia magna: 2 mg/L [Static]

**Persistence / degradability**
Not available

**Bioaccumulation / accumulation**
Not available

**Mobility in environmental media**
Not available
<table>
<thead>
<tr>
<th>Environmental effects</th>
<th>Not available</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aquatic toxicity</td>
<td>Not available</td>
</tr>
<tr>
<td>Partition coefficient</td>
<td>Not available</td>
</tr>
<tr>
<td>Chemical fate information</td>
<td>Not available</td>
</tr>
</tbody>
</table>

### 13. Disposal Considerations

**Disposal instructions**
- Dispose of wipe in trash after use.
- Do not reuse empty container. Rinse container and offer for recycling where facilities exist.
- Dispose in accordance with all applicable regulations.

**Waste from residues / unused products**
Not available

**Contaminated packaging**
Not available

### 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 EPA, EPA Reg. No. 777-114

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
   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
Ethanol 64-17-5 Teratogen

U.S. - Minnesota - Hazardous Substance List
Ethanol 64-17-5 Present

U.S. - New Jersey - Right to Know Hazardous Substance List
Ethanol 64-17-5 sn 0844

U.S. - Pennsylvania - RTK (Right to Know) List
Ethanol 64-17-5 Present

U.S. - Rhode Island - Hazardous Substance List
Ethanol 64-17-5 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

LYSOL® Dual Action™ - Disinfecting Wipes - Citrus 35 ,75 ct. - 0356375 v1.0
LYSOL® Dual Action™ - Disinfecting Wipes - Crisp Linen 35 ,75 ct. - 0356377 v1.0
LYSOL® Dual Action™ XL - Disinfecting Wipes Citrus 24, 50 ct. - 0356375 v1.0

Issue date
30-Jan-2012

Effective date
31-Jan-2012

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.