1. Product and Company Identification

Product Name: LYSOL® No-Touch™ Kitchen System - All Scents
CAS #: Mixture

This MSDS is designed for workplace employees, emergency personnel and for other conditions and situations where there is a greater potential for large-scale or prolonged exposure, in accordance with requirements of the U.S. Government's Occupational Safety and Health Administration (OSHA).

This MSDS is not applicable for consumer use of our products. For consumer use, all precautionary and first aid language is provided on the product label in accordance with the applicable government regulation.

Product Use: Hand Dish Detergent

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

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. 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: 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>Cocamido propyl betaine</td>
<td>61789-40-0</td>
<td>2.5 - 10</td>
</tr>
<tr>
<td>C10-16 alkyl ethers, sodium salts</td>
<td>68585-34-2</td>
<td>10 - 20</td>
</tr>
<tr>
<td>1-Dodecanamine, N,N-dimethyl-,N-oxide</td>
<td>1643-20-5</td>
<td>1 - 2.5</td>
</tr>
<tr>
<td>Triclosan</td>
<td>3380-34-5</td>
<td>0 - 0.1</td>
</tr>
</tbody>
</table>

4. First Aid Measures

**First aid procedures**

**Eye contact**
In case of eye contact, flush with water. Remove any contact lenses and continue to rinse 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 if symptoms occur.

**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**

<table>
<thead>
<tr>
<th>Suitable extinguishing media</th>
<th>Unsuitable extinguishing media</th>
</tr>
</thead>
<tbody>
<tr>
<td>Treat for surrounding material.</td>
<td>Not available</td>
</tr>
</tbody>
</table>

**Protection of firefighters**

<table>
<thead>
<tr>
<th>Specific hazards arising from the chemical</th>
</tr>
</thead>
<tbody>
<tr>
<td>Not available</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Protective equipment for firefighters</th>
</tr>
</thead>
<tbody>
<tr>
<td>Firefighters should wear full protective clothing including self contained breathing apparatus.</td>
</tr>
</tbody>
</table>

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

**Explosion data**

<table>
<thead>
<tr>
<th>Sensitivity to mechanical impact</th>
</tr>
</thead>
<tbody>
<tr>
<td>Not available</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Sensitivity to static discharge</th>
</tr>
</thead>
<tbody>
<tr>
<td>Not available</td>
</tr>
</tbody>
</table>

6. Accidental Release Measures

**Personal precautions**
Ensure adequate ventilation.
Avoid contact with eyes.
Do not touch or walk through spilled material.
Floors may become slippery.

**Environmental precautions**
Do not discharge into lakes, streams, ponds or public waters.
Advise authorities if product has penetrated drains, sewers or water pipes.

**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 to original containers for re-use.

7. Handling and Storage

**Handling**
Ensure adequate ventilation.
Use according to package label instructions.
Avoid contact with eyes.
For external use only.
When using, do not eat, drink or smoke.
Storage
Store in original container in a cool, secure area inaccessible to children and pets.
Store at room temperature.
Store containers upright and closed.
Do not store this material in open or unlabeled containers.

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>C10-16 alkyl ethers, sodium salts</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>Cocamido propyl betaine</td>
<td>ACGIH-TLV</td>
</tr>
<tr>
<td></td>
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<td></td>
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<tr>
<td></td>
<td>Not established</td>
</tr>
<tr>
<td>Triclosan</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>

Engineering controls
General ventilation normally adequate.

Personal protective equipment
Consult the product label for special protection or precautions that have been identified for using this product under directed consumer use conditions. The following recommendations are given for workplace employees, emergency personnel and for other conditions and situations where there is a greater potential for large-scale or prolonged exposure.

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.

General hygiene considerations
Handle in accordance with good industrial hygiene and safety practice. Avoid contact with eyes, skin and clothing.

9. Physical and Chemical Properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Opaque Liquid</td>
</tr>
<tr>
<td>Color</td>
<td>Orange, Yellow, Blue.</td>
</tr>
<tr>
<td>Form</td>
<td>Liquid</td>
</tr>
<tr>
<td>Odor</td>
<td>Various</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>7.00</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>
</tbody>
</table>
Flash point > 199.94 °F (> 93.3 °C)
Auto-ignition temperature 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 1.033
Octanol/water coefficient Not available
Solubility (H2O) Complete

10. Stability and Reactivity

Reactivity This product may react with strong oxidizing agents.
Possibility of hazardous reactions Hazardous polymerization does not occur.
Chemical stability Stable under recommended storage conditions.
Conditions to avoid Do not mix with other chemicals.
Keep away from extreme heat.
Exposure to moisture.
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>C10-16 alkyl ethers, sodium salts</td>
<td>Not available</td>
</tr>
<tr>
<td>Cocamido propyl betaine</td>
<td>Not available</td>
</tr>
<tr>
<td>Triclosan</td>
<td>&gt; 140 mg/m3 rat</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>C10-16 alkyl ethers, sodium salts</td>
<td>1700 mg/kg rat</td>
</tr>
<tr>
<td>Cocamido propyl betaine</td>
<td>2700 mg/kg rat</td>
</tr>
<tr>
<td>Triclosan</td>
<td>3700 mg/kg rat; 4530 mg/kg mouse</td>
</tr>
</tbody>
</table>

Effects of acute exposure
- **Eye** May cause eye irritation upon direct contact with the eyes.
- **Skin** None expected during normal conditions of use.
- **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

**Ecotoxicity - Freshwater Algae - Acute Toxicity Data**
- Cocamido propyl betaine: 61789-40-0
- EC50 Desmodesmus subspicatus: 1.0 - 10.0 mg/L; 96 Hr EC50 Desmodesmus subspicatus: 0.55 mg/L

**Ecotoxicity - Freshwater Fish - Acute Toxicity Data**
- Cocamido propyl betaine: 61789-40-0
  - 96 Hr LC50 Brachydanio rerio: 1.0-10.0 mg/L
  - 96 Hr LC50 Brachydanio rerio: 2 mg/L
- Triclosan: 3380-34-5
  - 96 Hr LC50 Pimephales promelas: 250 µg/L

**Ecotoxicity - Water Flea - Acute Toxicity Data**
- Cocamido propyl betaine: 61789-40-0
  - EC50 Daphnia magna: 6.5 mg/L
- Triclosan: 3380-34-5
  - EC50 Daphnia magna: 390 µg/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.
- Hand soap system packaging and refill bottle are recyclable.

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
15. Regulatory Information

Occupational Safety and Health Administration (OSHA)

29 CFR 1910.1200 hazardous chemical

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

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
No

Clean Water Act (CWA)

Not available

State regulations

See below
### 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® No-Touch™ Kitchen System - Shimmering Berry, 8.5 fl oz - 8021041v1.0
- LYSOL® No-Touch™ Kitchen System - Sparkling Tangerine, 8.5 fl oz - 8021037v2.0
- LYSOL® No-Touch™ Kitchen System - Sunkissed Lemon, 8.5 fl oz - 8021039v1.0

**Issue date**

24-Jan-2013

**Effective date**

15-Jan-2013

**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.