MATERIAL SAFETY DATA SHEET

1. Product and Company Identification

Product name: LYSOL® No Mess MAX Automatic Toilet Bowl Cleaner – 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: Toilet bowl cleaner

Distributed by: Reckitt Benckiser
Morris Corporate Center IV
399 Interpace Parkway
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:

| Severe | 4 |
| Serious | 3 |
| Moderate | 2 |
| Slight | 1 |
| Minimal | 0 |

2. Hazards Identification

Emergency overview:
WARNING
Causes severe eye and skin irritation.
Do not get in eyes, on skin or on clothing.
Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals.
Wash hands after handling.

KEEP OUT OF REACH OF CHILDREN.

Potential short term health effects

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

Eyes: Severely irritating to eyes.
Skin: Irritating to skin.

Inhalation: None expected during normal conditions of use.

Ingestion: May be harmful if swallowed.

Target organs: Skin. Eyes. Respiratory system.

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.

OSHA regulatory status: This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

Potential environmental effects: Components of this product have been identified as having potential environmental concerns.
3. Composition/Information on Ingredients

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS #</th>
<th>Percent</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium dodecylbenzene sulfonate</td>
<td>25155-30-0</td>
<td>10 - 20</td>
</tr>
<tr>
<td>Sulfonic acids, alkyl, sodium salts</td>
<td>68439-57-6</td>
<td>10 - 20</td>
</tr>
<tr>
<td>Proprietary fragrance</td>
<td>Proprietary</td>
<td>2.5 - 10</td>
</tr>
<tr>
<td>Alcohols, C12-15, ethoxylated</td>
<td>68131-39-5</td>
<td>1 - 2.5</td>
</tr>
<tr>
<td>Amorphous silica, precipitated</td>
<td>112926-00-8</td>
<td>1 - 2.5</td>
</tr>
</tbody>
</table>

4. First Aid Measures

**First aid procedures**

- **Eye contact**: If in eyes, IMMEDIATELY rinse eyes with water. Remove any contact lenses and continue rinsing eyes for at least 15 minutes. If irritation persists, get medical attention.
- **Skin contact**: If on skin, wash with soap and water. If irritation persists or reaction develops, get medical attention.
- **Inhalation**: Move exposed person to fresh air. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention if symptoms occur.
- **Ingestion**: Call a physician immediately. Wash out mouth with water. Do not induce vomiting unless told to do so by the Poison Control Center or doctor. Do not give anything by mouth to an unconscious person.

**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. 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**

- **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 and precautions 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**: 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. 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.

7. Handling and Storage

Handling

Ensure adequate ventilation.
Do not get in eyes, on skin or on clothing.
Do not ingest.
Use good industrial hygiene practices in handling this material.
When using do not eat or drink.
Wash thoroughly with soap and water after handling.
Read and follow product label for instructions.

Storage

KEEP OUT OF REACH OF CHILDREN.
Store at room temperature.
Store in a cool place in original container and protect from sunlight.

8. Exposure Controls/Personal Protection

Occupational exposure limits

US. OSHA Table Z-3 (29 CFR 1910.1000)

<table>
<thead>
<tr>
<th>Components</th>
<th>Type</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Amorphous silica, precipitated (CAS 112926-00-8)</td>
<td>TWA</td>
<td>0.8 mg/m3</td>
</tr>
<tr>
<td></td>
<td></td>
<td>20 mppcf</td>
</tr>
</tbody>
</table>

Exposure limits

Chemicals listed in section 3 that are not listed here do not have established limit values for ACGIH or OSHA PEL.

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

Wear safety glasses with side shields.

Hand protection

Wear suitable protective clothing.
Emergency responders should wear impermeable gloves.

Skin and body protection

As required by employer code. Usual safety precautions while handling the product will provide adequate protection against injury or irritation. Follow label directions carefully.

Respiratory protection

Where exposure guideline levels may be exceeded, use an approved NIOSH respirator.
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

<p>| Appearance          | Solid.           |
| Color               | Yellow           |
| Form                | Solid.           |
| Odor                | Characteristic   |
| Odor threshold      | Not available.   |
| Physical state      | Solid.           |
| pH                  | 7 (Conc (%w/w): 10%) |
| Freezing point      | Not available.   |
| Boiling point       | Not available.   |
| Pour point          | Not available.   |
| Evaporation rate    | Not available.   |
| Flash point         | &gt; 204.8 °F (&gt; 96.0 °C) Closed Cup |</p>
<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Auto-ignition temperature</td>
<td>Not available</td>
</tr>
<tr>
<td>Flammability limits in air, upper, % by volume</td>
<td>Not available</td>
</tr>
<tr>
<td>Flammability limits in air, lower, % 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>Not available.</td>
</tr>
<tr>
<td>Partition coefficient (n-octanol/water)</td>
<td>Not available.</td>
</tr>
<tr>
<td>Solubility (water)</td>
<td>Partially</td>
</tr>
<tr>
<td>Relative density</td>
<td>Not available.</td>
</tr>
<tr>
<td>Viscosity</td>
<td>Not available.</td>
</tr>
<tr>
<td>VOC</td>
<td>Not available.</td>
</tr>
<tr>
<td>Percent volatile</td>
<td>Not available.</td>
</tr>
</tbody>
</table>

### 10. Stability and Reactivity

**Reactivity**

This product may react with strong acids.

**Possibility of hazardous reactions**

Hazardous polymerization does not occur.

**Chemical stability**

Stable under recommended storage conditions.

**Conditions to avoid**

Keep from freezing. Exposure to moisture. Excessive heat. DO NOT MIX WITH BLEACH or use in conjunction with other household products.

**Incompatible materials**

Oxidizers. Acids.

**Hazardous decomposition products**

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

### 11. Toxicological Information

#### Toxicological data

<table>
<thead>
<tr>
<th>Components</th>
<th>Species</th>
<th>Test Results</th>
</tr>
</thead>
<tbody>
<tr>
<td>Alcohols, C12-15, ethoxylated (CAS 68131-39-5)</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Acute</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dermal</td>
<td></td>
<td></td>
</tr>
<tr>
<td>LD50</td>
<td>Rabbit</td>
<td>2000 mg/kg</td>
</tr>
<tr>
<td></td>
<td>Rat</td>
<td>2000 mg/kg</td>
</tr>
<tr>
<td><strong>Inhalation</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>LC50</td>
<td>Not available</td>
<td></td>
</tr>
<tr>
<td><strong>Oral</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>LD50</td>
<td>Rat</td>
<td>2000 mg/kg</td>
</tr>
</tbody>
</table>

| Amorphous silica, precipitated (CAS 112926-00-8) |         |                  |
| **Acute**                                     |         |                  |
| Dermal                                       |         |                  |
| LD50                                         | Rabbit  | >= 2000 mg/kg    |
| **Inhalation**                               |         |                  |
| LC50                                         | Rat     | > 2 mg/L         |
| **Oral**                                     |         |                  |
| LD50                                         | Mouse   | > 15000 mg/kg    |
|                                           | Rat     | > 22500 mg/kg    |
|                                           |         | 31600 mg/kg      |
Components | Species | Test Results
--- | --- | ---
Proprietary fragrance (CAS Proprietary) | | 
**Acute**
*Inhalation* | | 
LC50 | Not available |
**Oral** | | 
LD50 | Not available |
Sodium dodecylbenzene sulfonate (CAS 25155-30-0) | | 
**Acute**
*Dermal* | | 
LD50 | Rat | 2700 mg/kg |
**Inhalation** | | 
LC50 | Not available |
**Oral** | | 
LD50 | Rat | 438 mg/kg |
Sulfonic acids, alkyl, sodium salts (CAS 68439-57-6) | | 
**Acute**
*Inhalation* | | 
LC50 | Not available |
**Oral** | | 
LD50 | Rat | 1600 mg/kg |

**Effects of acute exposure**

Eye contact | Severe irritation to eyes.
Skin contact | Irritating to skin.
Inhalation | None expected during normal conditions of use.
Ingestion | None expected during normal conditions of 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**

**12. Ecological Information**

Ecotoxicity | See below

Ecotoxicological data

<table>
<thead>
<tr>
<th>Components</th>
<th>Species</th>
<th>Test Results</th>
</tr>
</thead>
</table>
Alcohols, C12-15, ethoxylated (CAS 68131-39-5) | | 
**Aquatic**
*Crustacea* | | 
EC50 | Water flea (Ceriodaphnia dubia) | 0.37 - 0.43 mg/l, 48 hours |
Fish | LC50 | Channel catfish (Ictalurus punctatus) | 1.04 - 1.39 mg/l, 96 hours |
Sodium dodecylbenzene sulfonate (CAS 25155-30-0) | | 
**Aquatic**
*Crustacea* | | 
EC50 | Water flea (Ceriodaphnia dubia) | 3.26 - 14.51 mg/l, 48 hours |
Fish | LC50 | Rainbow trout, donaldson trout (Oncorhynchus mykiss) | 3.2 - 5.6 mg/l, 96 hours |
### Components
Sulfonic acids, alkyl, sodium salts (CAS 68439-57-6)

<table>
<thead>
<tr>
<th>Aquatic</th>
<th>Species</th>
<th>Test Results</th>
</tr>
</thead>
<tbody>
<tr>
<td>Crustacea</td>
<td>EC50</td>
<td>Water flea (Ceriodaphnia dubia)</td>
</tr>
</tbody>
</table>

**Persistence and degradability**
Not available.

**Bioaccumulation / Accumulation**
Not available.

**Mobility in environmental media**
Not available.

**Environmental effects**
Not available.

**Aquatic toxicity**
Not available.

**Partition coefficient**
Sodium dodecylbenzene sulfonate 0.45

**Chemical fate information**
Not available.

### 13. Disposal Considerations

**Disposal instructions**
Review federal, state and local government requirements prior to disposal.
Discard with solid waste.

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

**Contaminated packaging**
Not available.

### 14. Transport Information

**U.S. Department of Transportation (DOT)**
Not regulated as dangerous goods.

**Transportation of Dangerous Goods (TDG - Canada)**
Not regulated as dangerous goods.

**IATA/ICAO (Air)**
Not regulated as dangerous goods.

**IMDG (Marine Transport)**
Not regulated as dangerous goods.

### 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.

**TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)**
Not regulated.

**US CWA Section 311 Hazardous Substances: Listed substance**
Sodium dodecylbenzene sulfonate (CAS 25155-30-0) Listed.

**CERCLA Hazardous Substance List (40 CFR 302.4)**
Sodium dodecylbenzene sulfonate (CAS 25155-30-0) Listed.

**Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)**
Not regulated.

**Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List**
Not regulated.

**CERCLA (Superfund) reportable quantity**
Sodium dodecylbenzene sulfonate: 1000
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

Clean Water Act (CWA)
- Hazardous substance

State regulations
- This product is not subject to warning labeling under the California Proposition 65 regulation.

US - California Hazardous Substances (Director's): Listed substance
- Amorphous silica, precipitated (CAS 112926-00-8) Listed.
- Sodium dodecylbenzene sulfonate (CAS 25155-30-0) Listed.

- Sodium dodecylbenzene sulfonate (CAS 25155-30-0) Listed.

US - Louisiana Spill Reporting: Listed substance
- Sodium dodecylbenzene sulfonate (CAS 25155-30-0) Listed.

US - Minnesota Haz Subs: Listed substance
- Amorphous silica, precipitated (CAS 112926-00-8) Listed.

US - New Jersey RTK - Substances: Listed substance
- Amorphous silica, precipitated (CAS 112926-00-8) Listed.
- Sodium dodecylbenzene sulfonate (CAS 25155-30-0) Listed.

- Sodium dodecylbenzene sulfonate (CAS 25155-30-0) Listed.

US - Texas Effects Screening Levels: Listed substance
- Amorphous silica, precipitated (CAS 112926-00-8) Listed.
- Sodium dodecylbenzene sulfonate (CAS 25155-30-0) Listed.
- Sulfonic acids, alkyl, sodium salts (CAS 68439-57-6) Listed.

US. Massachusetts RTK - Substance List
- Amorphous silica, precipitated (CAS 112926-00-8) Listed.
- Sodium dodecylbenzene sulfonate (CAS 25155-30-0) Listed.

US. Pennsylvania RTK - Hazardous Substances
- Sodium dodecylbenzene sulfonate (CAS 25155-30-0) Listed.

US. Rhode Island RTK
- Sodium dodecylbenzene sulfonate (CAS 25155-30-0) Listed.

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

*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® No Mess MAX Automatic Toilet Bowl Cleaner – Citrus – 8081854v1.0
- LYSOL® No Mess MAX Automatic Toilet Bowl Cleaner – Lavender Fresh – 8081847v1.0
- LYSOL® No Mess MAX Automatic Toilet Bowl Cleaner – Ocean Fresh – 8081832v1.0
- LYSOL® No Mess MAX Automatic Toilet Bowl Cleaner – Pine Fresh – 8081841v1.0

Issue date
22-April-2014

Effective date
15-April-2014

Prepared by
Reckitt Benckiser Regulatory Department Phone: 800-333-3899

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