1. Product and Company Identification

Product Name: Professional Lyso® Disinfectant Basin Tub & Tile Cleaner

UPC CODES: Refer to Section 16

CAS #: Mixture

Product use: Bathroom cleaner and 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

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 EYE IRRITATION. Do not get in eyes or on clothing. Wash thoroughly with soap and water after handling.

KEEP OUT OF REACH OF CHILDREN.

Potential short term health effects:

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

Eyes: Causes eye irritation. Avoid contact with eyes.

Skin: Prolonged or repeated contact may cause skin irritation. Not expected to be a skin sensitizer.

Inhalation: None expected during normal conditions of use.

Ingestion: None expected during normal conditions of use.

Target organs: Eyes. Skin.

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>Dipropylene glycol monobutyl ether</td>
<td>29911-28-2</td>
<td>2.5 - 10</td>
</tr>
<tr>
<td>Citric Acid</td>
<td>77-92-9</td>
<td>1 - 5</td>
</tr>
<tr>
<td>Acetic acid, hydroxy-</td>
<td>79-14-1</td>
<td>1 - 2.5</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 case of skin contact, wash skin thoroughly with soap and water. If irritation persists, consult a physician.

**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.

Have the product container or label with you when calling a poison control center or doctor, or going for treatment.

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.

**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
CAUSES EYE IRRITATION.
Avoid contact with eyes, skin and clothing.
Wash thoroughly with soap and water after handling.
Use good industrial hygiene practices in handling this material.
When using do not eat or drink.

**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.
8. Exposure Controls / Personal Protection

<table>
<thead>
<tr>
<th>Ingredient(s)</th>
<th>Exposure Limits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acetic acid, hydroxy-</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>Citric Acid</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: 10 mg/m3</td>
</tr>
<tr>
<td>Dipropylene glycol monobutyl ether</td>
<td>ACGIH-TLV</td>
</tr>
<tr>
<td></td>
<td>Mist: 10 mg/m3</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. Wear safety glasses with side shields. Emergency responders should wear full eye and face protection.
- **Hand protection:** DO NOT get on skin or clothing. Wear impervious gloves where the potential for contact with the liquid is possible. Emergency responders should wear impermeable gloves.
- **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. 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>Spray</td>
</tr>
<tr>
<td>Color</td>
<td>Clear Straw</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>1.8 - 2.2 (Acidic)</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; 200 °F (&gt; 93.33 °C) Tagliabue</td>
</tr>
<tr>
<td>Auto-ignition temperature</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>
</tbody>
</table>
Specific gravity 1.02 @ 25°C
Octanol/water coefficient Not available
Solubility (H2O) Complete
VOC (Weight %) Not available
Viscosity Not available
Percent volatile Not available

10. Stability and Reactivity

Chemical stability Stable under recommended storage conditions.
Conditions to avoid Excessive heat.
DO NOT MIX WITH BLEACH or use in conjunction with other household products.
Hazardous decomposition products May include and are not limited to: Oxides of carbon. Oxides of nitrogen.
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>Acetic acid, hydroxy-</td>
<td>7.7 mg/l/4h rat</td>
</tr>
<tr>
<td>Citric Acid</td>
<td>Not available</td>
</tr>
<tr>
<td>Dipropylene glycol monobutyl ether</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>Acetic acid, hydroxy-</td>
<td>1950 mg/kg rat; 1920 mg/kg guinea pig</td>
</tr>
<tr>
<td>Citric Acid</td>
<td>5040 mg/kg mouse; 3000 mg/kg rat</td>
</tr>
<tr>
<td>Dipropylene glycol monobutyl ether</td>
<td>3700 mg/kg rat</td>
</tr>
</tbody>
</table>

Effects of acute exposure

Eye Causes eye irritation. Avoid contact with eyes.
Skin Prolonged or repeated contact may cause skin irritation. Not expected to be a skin sensitizer.
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.
Synergistic Materials Not available

12. Ecological Information

Ecotoxicity Because of the low pH of this product, it would be expected to produce significant ecotoxicity upon exposure to aquatic organisms and aquatic systems.
Bulk quantities, if spilled, may be toxic to aquatic organisms, fish, birds and mammals.
Control and clean up all exterior spills and prevent liquid from entering any streams, rivers, lakes and all other bodies of water.

Ecotoxicity - Freshwater Fish Species Data

<table>
<thead>
<tr>
<th>Ingredient(s)</th>
<th>LC50</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acetic acid, hydroxy-</td>
<td>79-14-1</td>
</tr>
<tr>
<td>Citric Acid</td>
<td>77-92-9</td>
</tr>
<tr>
<td>Dipropylene glycol monobutyl ether</td>
<td>29911-28-2</td>
</tr>
</tbody>
</table>

Ecotoxicity - Water Flea Data

<table>
<thead>
<tr>
<th>Ingredient(s)</th>
<th>EC50</th>
</tr>
</thead>
<tbody>
<tr>
<td>Citric Acid</td>
<td>77-92-9</td>
</tr>
</tbody>
</table>

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: 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

15. Regulatory Information

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

Product Registration: Registered with EPA, EPA Reg. No. 675-55

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

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
This product does not contain a chemical known to the State of California to cause cancer, birth defects or other reproductive harm.

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)
### 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**

36241-04685-9 - Professional LYSOL® Disinfectant Basin Tub & Tile Cleaner - 32 oz. - 0069807

**Issue date**

09-Jul-2010

**Effective date**

30-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.