1. Product and Company Identification

Product Name: LYSOL® Power & Free™ All-Purpose Cleaner - Trigger
CAS #: Mixture
Product Use: All purpose cleaner
Distributed by: Reckitt Benckiser (Canada) Inc.
1680 Tech Avenue Unit #2
Mississauga, ON L4W 5S9
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

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

2. Hazards Identification

Emergency Overview
This product is regulated by Health Canada as a disinfectant. Extensive testing has been completed to show that it is safe and effective when used as directed. Avoid contact with eyes, skin and clothing. Avoid breathing vapours and mists.
Keep out of reach of children.

Potential short term health effects
Routes of exposure
Eye, Skin contact, Inhalation, Ingestion.

Eyes
Mildly irritating to the eyes.

Skin
Slightly irritating to the skin.
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
Symptoms may include redness, oedema, drying, defatting and cracking of the skin. Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting.

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

3. Composition/Information on Ingredients

<table>
<thead>
<tr>
<th>Ingredient(s)</th>
<th>CAS #</th>
<th>Percent</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hydrogen peroxide</td>
<td>7722-84-1</td>
<td>0.5 - 1.5</td>
</tr>
<tr>
<td>Citric acid</td>
<td>77-92-9</td>
<td>0.5 - 1.5</td>
</tr>
</tbody>
</table>

4. First Aid Measures

First aid procedures

Eye contact
Check for and remove any contact lenses. If in eyes, IMMEDIATELY rinse eyes with water. Remove any contact lenses and continue rinsing eyes for at least 15 minutes. Get medical attention immediately.

Skin contact
Get medical attention immediately. In case of contact, immediately flush skin with plenty of water while removing contaminated clothing and shoes. Wash clothing before reuse.
Inhalation
Move exposed person to fresh air. Get medical attention immediately.

Ingestion
Call medical doctor or poison control center immediately. 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. Avoid contact with eyes and skin. Keep out of reach of children.

5. Fire-fighting Measures

Flammable properties
Not flammable by WHMIS 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. Oxides of nitrogen. Oxides of sulphur.

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.

Inform the relevant authorities if the product has caused environmental pollution.

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
Ensure adequate ventilation.
Use good industrial hygiene practices in handling this material.
When using do not eat or drink. Avoid contact with skin and clothing.
Avoid contact with eyes.
Avoid breathing vapours or mists of this product.
Do not ingest.
Keep container tightly closed.
Wash thoroughly after handling.

Storage
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.
Store in a closed container away from incompatible materials.
Store in original container, protected from direct sunlight, in a dry, cool, well ventilated area, and away from food and drink.
Do not freeze.
Store at room temperature.

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>Ingredient(s)</th>
<th>ACGIH-TLV</th>
<th>TWA: 10 mg/m3</th>
</tr>
</thead>
<tbody>
<tr>
<td>Citric acid</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Ingredient(s)</th>
<th>ACGIH-TLV</th>
<th>TWA: 1 ppm</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hydrogen peroxide</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Engineering controls**

General ventilation normally adequate.

**Personal protective equipment**

**Eye/Face protection**

Wear safety glasses with side shields. Emergency responders should wear full eye and face protection.

**Hand protection**

Rubber gloves. Confirm with a reputable supplier first. 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. Emergency responders should wear impermeable clothing and footwear when responding to a situation where contact with the liquid is possible.

**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. Wash hands before breaks and immediately after handling the product.

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>Colour</td>
<td>Clear</td>
</tr>
<tr>
<td>Form</td>
<td>aqueous solution</td>
</tr>
<tr>
<td>Odour</td>
<td>Characteristic</td>
</tr>
<tr>
<td>Odour threshold</td>
<td>Not available</td>
</tr>
<tr>
<td>Physical state</td>
<td>Liquid</td>
</tr>
<tr>
<td>pH</td>
<td>2.1 - 3.5</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; 93.3 °C (&gt; 199.94 °F) closed cup</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>Vapour pressure</td>
<td>Not available</td>
</tr>
<tr>
<td>Vapour density</td>
<td>Not available</td>
</tr>
<tr>
<td>Specific gravity</td>
<td>1.000 - 1.005</td>
</tr>
<tr>
<td>Octanol/water coefficient</td>
<td>Not available</td>
</tr>
<tr>
<td>Solubility (H2O)</td>
<td>Complete</td>
</tr>
</tbody>
</table>

10. Stability and Reactivity

**Reactivity**

This product may react with oxidizing agents.

**Possibility of hazardous reactions**

Hazardous polymerisation does not occur.

**Chemical stability**

Stable under recommended storage conditions.
Conditions to avoid
Do not freeze
Exposure to moisture.
Keep away from extreme heat.
DO NOT MIX WITH BLEACH or use in conjunction with other household products.

Incompatible materials
CORROATIVE TO METALS

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

11. Toxicological Information

Component analysis - LC50

<table>
<thead>
<tr>
<th>Ingredient(s)</th>
<th>LC50</th>
</tr>
</thead>
<tbody>
<tr>
<td>Citric acid</td>
<td>Not available</td>
</tr>
<tr>
<td>Hydrogen peroxide</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>Citric acid</td>
<td>5040 mg/kg mouse; 3000 mg/kg rat</td>
</tr>
<tr>
<td>Hydrogen peroxide</td>
<td>75 mg/kg rat; 2000 mg/kg mouse</td>
</tr>
</tbody>
</table>

Effects of acute exposure

<table>
<thead>
<tr>
<th>Eye</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mildly irritating to the eyes.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Skin</th>
</tr>
</thead>
<tbody>
<tr>
<td>Slightly irritating to the skin.</td>
</tr>
<tr>
<td>Not expected to be a skin sensitizer.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Inhalation</th>
</tr>
</thead>
<tbody>
<tr>
<td>None expected during normal conditions of use.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Ingestion</th>
</tr>
</thead>
<tbody>
<tr>
<td>Health injuries are not known or expected under normal use.</td>
</tr>
</tbody>
</table>

Sensitisation

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

ACGIH - Threshold Limit Values - Carcinogens
- Hydrogen peroxide 7722-84-1 A3 - Confirmed animal carcinogen with unknown relevance to humans.

IARC - Group 3 (Not Classifiable)
- Hydrogen peroxide 7722-84-1 Monograph 71 [1999]; Supplement 7 [1987]; Monograph 36 [1985]

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

See below

Ecotoxicity - Freshwater Algae - Acute Toxicity Data
- Hydrogen peroxide 7722-84-1 72 Hr EC50 Chlorella vulgaris: 2.5 mg/L

Ecotoxicity - Freshwater Fish - Acute Toxicity Data
- Citric acid 77-92-9 96 Hr LC50 Lepomis macrochirus: 1516 mg/L [static]
- Hydrogen peroxide 7722-84-1 96 Hr LC50 Pimephales promelas: 16.4 mg/L; 96 Hr LC50 Lepomis macrochirus: 18-56 mg/L; 96 Hr LC50 Oncorhynchus mykiss: 10.0-32.0 mg/L [static]

Ecotoxicity - Water Flea - Acute Toxicity Data
- Citric acid 77-92-9 72 Hr EC50 Daphnia magna: 120 mg/L
- Hydrogen peroxide 7722-84-1 24 Hr EC50 Daphnia magna: 7.7 mg/L; 48 Hr EC50 Daphnia magna: 18 - 32 mg/L [Static]

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
Not available

Chemical fate information
Not available

Other adverse effects
Not available
13. Disposal Considerations

<table>
<thead>
<tr>
<th>Disposal instructions</th>
<th>Dispose in accordance with all applicable regulations.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Waste from residues / unused products</td>
<td>Not available</td>
</tr>
<tr>
<td>Contaminated packaging</td>
<td>Not available</td>
</tr>
</tbody>
</table>

14. Transport Information

**U.S. Department of Transportation (DOT)**

UN 1760, Corrosive liquids, n.o.s. (Citric acid, Hydrogen peroxide), Class 8, PG III, Limited Quantity

**Transportation of Dangerous Goods (TDG - Canada)**

UN 1760, CORROSIVE LIQUID, N.O.S. (CITRIC ACID, HYDROGEN PEROXIDE), Class 8, PG III, Limited Quantity

**IMDG (Marine Transport)**

UN 1760, CORROSIVE LIQUID, N.O.S. (Citric acid, Hydrogen peroxide), Class 8, PG III, Limited Quantity
15. Regulatory Information

**Canadian federal regulations**

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.

Product Registration: Registered with TPD, DIN 02382846

All components of this product are either on the Domestic Substances List (DSL), the Non-Domestic Substances List (NDSL) or exempt.

**Canada - WHMIS - Ingredient Disclosure List**

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>CAS Number</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Citric acid</td>
<td>77-92-9</td>
<td>1 %</td>
</tr>
<tr>
<td>Hydrogen peroxide</td>
<td>7722-84-1</td>
<td>1 %</td>
</tr>
</tbody>
</table>

**WHMIS classification**

Exempt - Registered product - (DIN 02382946)

**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>Canada</td>
<td>Domestic Substances List (DSL)</td>
<td>Yes</td>
</tr>
<tr>
<td>Canada</td>
<td>Non-Domestic Substances List (NDSL)</td>
<td>No</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® Power & Free™ All-Purpose Cleaner - Trigger - Citrus Sparkle Zest - 22 fl. oz (1 pt. 6 fl. oz.) (650 mL) - 8005137 v1.0
- LYSOL® Power & Free™ All-Purpose Cleaner - Trigger - Oxygen Splash - 22 fl. oz (1 pt. 6 fl. oz.) (650 mL) - 8006668 v1.0

**Issue date**

25-Jul-2012

**Effective Date**

15-Jul-2012

**Expiry Date**

15-Jul-2015

**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.

This MSDS conforms to the ANSI Z400.1/Z129.1-2010 Standard.