1. Product and Company Identification

Product Name: Professional LYSOL® All Purpose Cleaner with Bleach

UPC CODES: Refer to Section 16

CAS #: Mixture

Product use: Cleaner

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
WARNING
Causes eye and skin irritation.
Do not get in eyes, on skin or on clothing.
Odors may irritate.
Use only in well-ventilated areas.
Avoid prolonged breathing of vapor.
Not recommended for use by persons with heart conditions or chronic respiratory problems such as asthma, emphysema or obstructive lung disease.
HARMFUL IF SWALLOWED.
APPLY CAREFULLY, contains bleach.
For sensitive skin or prolonged use, wear rubber gloves.
Do not mix with other household chemicals, such as products containing ammonia, toilet bowl cleaners, vinegars, or acidic cleaners or with other LYSOL® Brand products, as hazardous gases may be released.
AVOID CONTACT with clothes, fabric, carpet, wood, rubber, painted and paper surfaces, and finished floors.
Rinse immediately after use on metal to avoid pitting or discoloration.
Prolonged contact with metal, old porcelain, plastic laminate, quarry tile and marble may cause discoloration.

KEEP OUT OF REACH OF CHILDREN.

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

Eyes
Causes eye irritation.

Skin
Causes skin irritation.

Inhalation
Odors may irritate.

Ingestion
Harmful if swallowed.

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, 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>Sodium hypochlorite</td>
<td>7681-52-9</td>
<td>1 - 5</td>
</tr>
<tr>
<td>Sodium hydroxide</td>
<td>1310-73-2</td>
<td>0 - 1</td>
</tr>
</tbody>
</table>

4. First Aid Measures

First aid procedures
Eye contact In case of eye contact, immediately flush eyes with water, remove any contact lenses, and continue flushing eyes for at least 15 minutes. Get medical attention immediately.
Skin contact In case of skin contact, immediately wash with plenty of soap and water. If irritation persists, get medical attention.
Inhalation If breathing is affected, get fresh air immediately.
Ingestion If swallowed, drink a glass of water and get prompt medical attention.

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.

5. Fire Fighting Measures

Flammable properties Not flammable by OSHA criteria.
Suitable extinguishing media Unsuitable extinguishing media Not available
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: Oxygen. Chlorine gas.
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.
# Handling and Storage

**Handling**  
WARNING.  
Causes eye and skin irritation.  
Do not get this material in your eyes, on your skin, or on your clothing. Odors may irritate.  
Use only in well-ventilated areas. Avoid prolonged breathing of vapors.  
Use good industrial hygiene practices in handling this material.  
APPLY CAREFULLY, contains bleach. Do not mix with other household chemicals, such as products containing ammonia, toilet bowl cleaners, vinegars, or acidic cleaners or with other LYSOL® Brand products, as hazardous gases may be released. AVOID CONTACT with clothes, fabric, carpet, wood, rubber, painted and paper surfaces, and finished floors. Prolonged contact with metal, old porcelain, plastic laminate, quarry tile and marble may cause discoloration.  

Not recommended for use by persons with heart conditions or chronic respiratory problems such as asthma, emphysema or obstructive lung disease.

**Storage**  
Store in original container in a cool, secure area inaccessible to children and pets. Do not reuse container.

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# Exposure Controls / Personal Protection

### Exposure limits

<table>
<thead>
<tr>
<th>Ingredient(s)</th>
<th>Exposure Limits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium hydroxide</td>
<td>ACGIH-TLV</td>
</tr>
<tr>
<td></td>
<td>Ceiling: 2 mg/m3</td>
</tr>
<tr>
<td></td>
<td>OSHA-PEL</td>
</tr>
<tr>
<td></td>
<td>TWA: 2 mg/m3</td>
</tr>
<tr>
<td>Sodium hypochlorite</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  

Use only under good ventilation conditions or with respiratory protection.

### 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. For sensitive skin or prolonged use, wear rubber gloves.  
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  
Avoid prolonged breathing of vapor.  
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.

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# Physical and Chemical Properties

<table>
<thead>
<tr>
<th>Appearance</th>
<th>Clear.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Color</td>
<td>Light Straw</td>
</tr>
<tr>
<td>Form</td>
<td>aqueous solution</td>
</tr>
<tr>
<td>Odor</td>
<td>slight chlorine</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>12.4 (Basic)</td>
</tr>
<tr>
<td>Freezing point</td>
<td>Not available</td>
</tr>
</tbody>
</table>
### 10. Stability and Reactivity

**Chemical stability**
Stable under recommended storage conditions.

**Conditions to avoid**
Do not mix with other household chemicals, such as products containing ammonia, toilet bowl cleaners, vinegars, or acidic cleaners or with other LYSOL® Brand products, as hazardous gases may be released.

**Incompatible materials**
Acids. Oxidizers.

**Hazardous decomposition products**
May include and are not limited to: Chlorine gas. Oxygen.

**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>Sodium hydroxide</td>
<td>Not available</td>
</tr>
<tr>
<td>Sodium hypochlorite</td>
<td>&gt; 5250 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>Sodium hydroxide</td>
<td>Not available</td>
</tr>
<tr>
<td>Sodium hypochlorite</td>
<td>8200 mg/kg rat; 5800 mg/kg mouse</td>
</tr>
</tbody>
</table>

#### Effects of acute exposure

<table>
<thead>
<tr>
<th>Effect</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Eye</td>
<td>Causes eye irritation.</td>
</tr>
<tr>
<td>Skin</td>
<td>Causes skin irritation.</td>
</tr>
<tr>
<td>Inhalation</td>
<td>Odors may irritate.</td>
</tr>
<tr>
<td>Ingestion</td>
<td>Harmful if swallowed.</td>
</tr>
<tr>
<td>Sensitization</td>
<td>The finished product is not expected to have chronic health effects.</td>
</tr>
<tr>
<td>Chronic effects</td>
<td>The finished product is not expected to have chronic health effects.</td>
</tr>
<tr>
<td>Carcinogenicity</td>
<td>The finished product is not expected to have chronic health effects.</td>
</tr>
</tbody>
</table>

**IARC - Group 3 (Not Classifiable)**
Sodium hypochlorite 7681-52-9 Monograph 52 [1991] (listed under Hypochlorite salts)

**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

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 Algae Data**
- Sodium hypochlorite 7681-52-9 24 Hr EC50 Skeletonema costatum: 0.095 mg/L

**Ecotoxicity - Freshwater Fish Species Data**
- Sodium hydroxide 1310-73-2 96 Hr LC50 Oncorhynchus mykiss: 45.4 mg/L [static]
- Sodium hypochlorite 7681-52-9 96 Hr LC50 Pimephales promelas: 0.06-0.11 mg/L [flow-through]; 96 Hr LC50 Pimephales promelas: 4.5-7.6 mg/L [static]; 96 Hr LC50 Lepomis macrochirus: 0.4-0.8 mg/L [static]; 96 Hr LC50 Lepomis macrochirus: 0.28-1 mg/L [flow-through]; 96 Hr LC50 Oncorhynchus mykiss: 0.05-0.771 mg/L [flow-through]; 96 Hr LC50 Oncorhynchus mykiss: >0.03-<0.19 mg/L [semi-static]; 96 Hr LC50 Oncorhynchus mykiss: 0.18-0.22 mg/L [static]

**Ecotoxicity - Water Flea Data**
- Sodium hypochlorite 7681-52-9 96 Hr EC50 Daphnia magna: 2.1 mg/L; 48 Hr EC50 Daphnia magna: 0.033 - 0.044 mg/L [Static]

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. Small amounts of waste: Wipe up with a wet paper towel and discard absorbed material in trash collection. Do not reuse empty container. Rinse container and offer for recycling where facilities exist. Large quantities of waste liquid: Contain and collect for evaluation and disposal according to local, state, provincial and federal regulations.

Waste from residues / unused products Not available
Contaminated packaging Not available

14. Transport Information

U.S. Department of Transportation (DOT)

UN 3266, Corrosive liquid, basic, inorganic, N.O.S. (Sodium Hydroxide, Sodium Hypochlorite), Class 8, PG III, Limited Quantity. Re-classed as Consumer Commodity ORM-D
Transportation of Dangerous Goods (TDG - Canada)

UN 3266, Corrosive liquid, basic, inorganic, N.O.S.  
(Sodium Hydroxide, Sodium Hypochlorite), Class 8, PG III, Limited Quantity.  Re-classed as Consumer Commodity/ LTD. QTY.

IMDG (Marine Transport)

UN 3266, Corrosive liquid, basic, inorganic, N.O.S.  
(Sodium Hydroxide, Sodium Hypochlorite), Class 8, PG III, Limited Quantity.

IATA/ICAO (Air)

UN 3266, Corrosive liquid, basic, inorganic, N.O.S.  
(Sodium Hydroxide, Sodium Hypochlorite), Class 8, PG III

15. Regulatory Information

US Federal regulations
This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

Product Registration: Not registered

U.S. - CERCLA/SARA - Hazardous Substances and their Reportable Quantities
Sodium hydroxide 1310-73-2 1000 Lb final RQ; 454 kg final RQ
Sodium hypochlorite 7681-52-9 100 Lb final RQ; 45.4 kg final RQ

U.S. - CWA (Clean Water Act) - Hazardous Substances
Sodium hydroxide 1310-73-2 Present
Sodium hypochlorite 7681-52-9 Present

Occupational Safety and Health Administration (OSHA)
29 CFR 1910.1200 hazardous chemical Yes
CERCLA (Superfund) reportable quantity
Sodium hypochlorite: 100.0000
Sodium hydroxide: 1000.0000

Superfund Amendments and Reauthorization Act of 1986 (SARA)

<table>
<thead>
<tr>
<th>Hazard categories</th>
<th>Immediate Hazard - Yes</th>
<th>Delayed Hazard - No</th>
<th>Fire Hazard - No</th>
<th>Pressure Hazard - No</th>
<th>Reactivity Hazard - Yes</th>
</tr>
</thead>
</table>

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.

U.S. - California - 8 CCR Section 339 - Director's List of Hazardous Substances
Sodium hydroxide 1310-73-2 Present
Sodium hypochlorite 7681-52-9 Present

U.S. - Louisiana - Reportable Quantity List for Pollutants
Sodium hydroxide 1310-73-2 1000 Lb final RQ; 454 kg final RQ
Sodium hypochlorite 7681-52-9 100 Lb final RQ; 45.4 kg final RQ

U.S. - Massachusetts - Right To Know List
Sodium hydroxide 1310-73-2 Present
Sodium hypochlorite 7681-52-9 Present

U.S. - Minnesota - Hazardous Substance List
Sodium hydroxide 1310-73-2 Present
Sodium hypochlorite 7681-52-9 Present

U.S. - New Jersey - Right to Know Hazardous Substance List
Sodium hydroxide 1310-73-2 sn 1706
Sodium hypochlorite 7681-52-9 sn 1707

U.S. - New York - Reporting of Releases Part 597 - List of Hazardous Substances
Sodium hydroxide 1310-73-2 1000 Lb RQ (air); 100 lb RQ (land/water)
Sodium hypochlorite 7681-52-9 100 Lb RQ (air); 100 lb RQ (land/water)

U.S. - Pennsylvania - RTK (Right to Know) List
Sodium hydroxide 1310-73-2 Environmental hazard
Sodium hypochlorite 7681-52-9 Environmental hazard

U.S. - Rhode Island - Hazardous Substance List
Sodium hydroxide 1310-73-2 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
36241-94532-9 - Professional LYSOL® All Purpose Cleaner with Bleach - 32 oz. - 355389

Issue date
29-Jun-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.