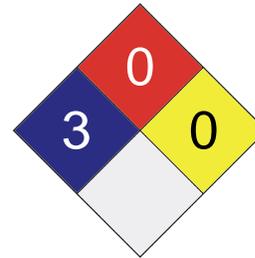


## 1. Product and Company Identification

**Product Name** LYSOL® Brand (Kills 99.9% of Viruses & Bacteria) All Purpose Cleaner Complete Clean 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

LEGEND HMIS/NFPA	
Severe	4
Serious	3
Moderate	2
Slight	1
Minimal	0

Health	/ 3
Flammability	0
Physical Hazard	0
Personal Protection	B



## 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 and skin irritation. Do not get in eyes, on skin or on clothing. Vapors may irritate. Use only in well-ventilated areas. Avoid prolonged breathing of vapors. Not recommended for use by persons with heart conditions or chronic respiratory problems such as asthma, emphysema or obstructive lung disease. HARMFUL IF SWALLOWED. For sensitive skin or prolonged use, wear rubber gloves.

PHYSICAL AND CHEMICAL HAZARDS: This Product Contains Bleach. Do not mix with other household chemicals such as products containing ammonia, toilet bowl cleaners or acid cleaners as hazardous gases may be released.

KEEP OUT OF REACH OF CHILDREN.

### Potential short term health effects

#### Routes of exposure

##### Eyes

Eye, Skin contact, Inhalation, Ingestion.

##### Skin

Causes eye irritation. Do not get into eyes.

##### Inhalation

Causes skin irritation. Do not get on skin or clothing.

##### Ingestion

Odors may irritate. Avoid prolonged breathing of vapor.

#### Target organs

Harmful if swallowed.

#### Chronic effects

Eyes. Respiratory system. Skin.

#### Signs and symptoms

The finished product is not expected to have chronic health effects.

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

Ingredient(s)	CAS #	Percent
Sodium hypochlorite	7681-52-9	1 - 5
Sodium hydroxide	1310-73-2	0 - 1

### 4. First Aid Measures

#### First aid procedures

<b>Eye contact</b>	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.
<b>Skin contact</b>	If on skin or clothing: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control centre or doctor for treatment advice.
<b>Inhalation</b>	Remove affected person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. Call a poison control center or doctor for further treatment advice.
<b>Ingestion</b>	Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. DO NOT induce vomiting unless told to do so by a poison control center or doctor. Do not give anything by mouth to an unconscious person.

#### 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

<b>Flammable properties</b>	Not flammable by OSHA criteria.
<b>Extinguishing media</b>	
<b>Suitable extinguishing media</b>	Water spray. Foam. Dry chemical. Carbon dioxide.
<b>Unsuitable extinguishing media</b>	Not available
<b>Protection of firefighters</b>	
<b>Specific hazards arising from the chemical</b>	Not available
<b>Protective equipment for firefighters</b>	Firefighters should wear full protective clothing including self contained breathing apparatus.
<b>Hazardous combustion products</b>	May include and are not limited to: Oxygen. Chlorine gas.
<b>Explosion data</b>	
<b>Sensitivity to mechanical impact</b>	Not available
<b>Sensitivity to static discharge</b>	Not available

### 6. Accidental Release Measures

<b>Personal precautions</b>	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.
<b>Methods for containment</b>	Stop leak if you can do so without risk. Prevent entry into waterways, sewers, basements or confined areas.
<b>Methods for cleaning up</b>	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.

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## 7. Handling and Storage

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### Handling

WARNING.  
Causes eye and skin irritation.  
Do not get this material in your eyes, on your skin, or on your clothing.  
Use only in well-ventilated areas.  
Do not breathe vapours or spray mist.  
Use good industrial hygiene practices in handling this material.  
When using do not eat or drink.

### Storage

Not recommended for use by persons with heart conditions or chronic respiratory problems such as asthma, emphysema or obstructive lung disease.  
Store in original container in a cool, secure area inaccessible to children and pets. Do not reuse container.  
It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

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## 8. Exposure Controls / Personal Protection

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### Exposure limits

#### Ingredient(s)

#### Exposure Limits

Sodium hydroxide

**ACGIH-TLV**  
Ceiling: 2 mg/m<sup>3</sup>  
**OSHA-PEL**  
TWA: 2 mg/m<sup>3</sup>

Sodium hypochlorite

**ACGIH-TLV**  
Not established  
**OSHA-PEL**  
Not established

### 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

Avoid contact with the skin. 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

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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## 9. Physical and Chemical Properties

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### Appearance

Clear.

### Color

Light Straw

### Form

aqueous solution

### Odor

slight chlorine

### Odor threshold

Not available

### Physical state

Liquid

### pH

12.5 (Basic)

### Freezing point

Not available

### Pour point

Not available

### Boiling point

Not available

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<b>Flash point</b>	> 199.94 °F (> 93.3 °C) Tagliabue
<b>Evaporation rate</b>	Not available
<b>Flammability limits in air, lower, % by volume</b>	Not available
<b>Flammability limits in air, upper, % by volume</b>	Not available
<b>Vapor pressure</b>	Not available
<b>Vapor density</b>	Not available
<b>Specific gravity</b>	1.044 (Water = 1)
<b>Octanol/water coefficient</b>	Not available
<b>Solubility (H2O)</b>	Complete
<b>Auto-ignition temperature</b>	Not available

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## 10. Stability and Reactivity

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<b>Chemical stability</b>	Stable under recommended storage conditions.
<b>Conditions to avoid</b>	DO NOT MIX WITH BLEACH or use in conjunction with other household products.
<b>Incompatible materials</b>	Acids. Oxidizers.
<b>Hazardous decomposition products</b>	May include and are not limited to: Chlorine gas. Oxygen.
<b>Possibility of hazardous reactions</b>	Hazardous polymerization does not occur.

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## 11. Toxicological Information

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### Component analysis - LC50

Ingredient(s)	LC50
Sodium hydroxide	Not available
Sodium hypochlorite	> 5250 mg/m3 rat

### Component analysis - Oral LD50

Ingredient(s)	LD50
Sodium hydroxide	Not available
Sodium hypochlorite	8200 mg/kg rat; 5800 mg/kg mouse

### Effects of acute exposure

<b>Eye</b>	Causes eye irritation. Do not get into eyes.
<b>Skin</b>	Causes skin irritation. Do not get on skin or clothing.
<b>Inhalation</b>	Odors may irritate. Avoid prolonged breathing of vapor.
<b>Ingestion</b>	Harmful if swallowed.
<b>Sensitization</b>	The finished product is not expected to have chronic health effects.
<b>Chronic effects</b>	The finished product is not expected to have chronic health effects.
<b>Carcinogenicity</b>	The finished product is not expected to have chronic health effects.
<b>IARC - Group 3 (Not Classifiable)</b>	
Sodium hypochlorite	7681-52-9      Monograph 52 [1991] (listed under Hypochlorite salts)
<b>Mutagenicity</b>	The finished product is not expected to have chronic health effects.
<b>Reproductive effects</b>	The finished product is not expected to have chronic health effects.
<b>Teratogenicity</b>	The finished product is not expected to have chronic health effects.
<b>Synergistic Materials</b>	Not available

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## 12. Ecological Information

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**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

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## 13. Disposal Considerations

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**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

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## 14. Transport Information

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### 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

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## 15. Regulatory Information

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### 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 EPA, EPA Reg. No. 777-83

### 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)**

**Hazard categories** Immediate Hazard - Yes  
 Delayed Hazard - No  
 Fire Hazard - No  
 Pressure Hazard - No  
 Reactivity Hazard - Yes

**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**

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**

19200-78914-1 - LYSOL® Brand (Kills 99.9% of Viruses & Bacteria) All Purpose Cleaner Complete Clean with Bleach - 32 oz. - 0003419

**Issue date**

09-Jul-2010

**Effective date**

15-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.