

## 1. Product and Company Identification

**Product Name** Professional LYSOL® Heavy Duty Bathroom Cleaner Concentrate (Use-dilution 1:32 (4oz./gal.))

**UPC CODES** Refer to Section 16

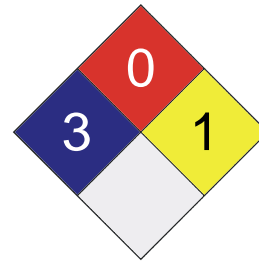
**CAS #** Mixture

**Product use** Heavy duty 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	1
Personal Protection	D



## 2. Hazards Identification

### Emergency overview

This product is regulated by the US EPA as a disinfectant.

PRECAUTIONARY STATEMENTS: Hazards to humans and domestic animals.

#### DANGER -- CORROSIVE

Causes irreversible eye damage and skin burns. Do not get in eyes, on skin or on clothing. Wear protective eye wear (goggles, face shield or safety glasses), protective clothing and rubber gloves. May be harmful if swallowed. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum or using tobacco. Remove contaminated clothing and wash before reuse.

KEEP OUT OF REACH OF CHILDREN.

### Potential short term health effects

#### Routes of exposure

##### Eyes

Eye, Skin contact, Inhalation, Ingestion.

##### Skin

Causes eye damage.

##### Inhalation

Causes skin burns.

##### Ingestion

None expected during normal conditions of use.

### Target organs

May be harmful if swallowed.

### Chronic effects

Blood. Eyes. Liver. Respiratory system. Skin.

### Signs and symptoms

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

The product causes burns of eyes, skin and mucous membranes.

### 3. Composition / Information on Ingredients

Ingredient(s)	CAS #	Percent
Alkyl (50%C14, 40%C12, 10%C16) dimethyl benzyl ammonium chlorides	Not Applicable	2.5 - 10
Ethanol, 2-(2-butoxyethoxy)-	112-34-5	2.5 - 10
Alcohols, C9-11, ethoxylated	68439-46-3	1 - 2.5
Ethanol	64-17-5	1 - 2.5
Tetrasodium ethylenediamine tetraacetate	64-02-8	1 - 2.5
Sodium carbonate	497-19-8	0.5 - 1.5
Sodium hydroxide	1310-73-2	0.1 - 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 to fresh air.
<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

Probable mucosal damage may contraindicate the use of gastric lavage.

#### 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

<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: Oxides of carbon.
<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.

## 7. Handling and Storage

<b>Handling</b>	<p>DANGER          Causes irreversible eye damage and skin burns.          MAY BE HARMFUL IF SWALLOWED.          Do not get in eyes, on skin or on clothing.          Wear protective eye wear (goggles, face shield or safety glasses), protective clothing and rubber gloves.          Remove and wash contaminated clothing before re-use.</p>
<b>Storage</b>	<p>Do not contaminate water, food or feed by storage or disposal.          Store in original container in areas inaccessible to small children.          Keep securely closed.</p> <p>It is a violation of Federal law to use this product in a manner inconsistent with its labeling.</p>

## 8. Exposure Controls / Personal Protection

### Exposure limits

Ingredient(s)	Exposure Limits
Alcohols, C9-11, ethoxylated	<p><b>ACGIH-TLV</b>            Not established</p> <p><b>OSHA-PEL</b>            Not established</p>
Alkyl (50%C14, 40%C12, 10%C16) dimethyl benzyl ammonium chlorides	<p><b>ACGIH-TLV</b>            Not established</p> <p><b>OSHA-PEL</b>            Not established</p>
Ethanol	<p><b>ACGIH-TLV</b>            TWA: 1000 ppm            STEL: 1000 ppm</p> <p><b>OSHA-PEL</b>            TWA: 1000 ppm</p>
Ethanol, 2-(2-butoxyethoxy)-	<p><b>ACGIH-TLV</b>            Not established</p> <p><b>OSHA-PEL</b>            Not established</p>
Sodium carbonate	<p><b>ACGIH-TLV</b>            Not established</p> <p><b>OSHA-PEL</b>            Not established</p>
Sodium hydroxide	<p><b>ACGIH-TLV</b>            Ceiling: 2 mg/m3</p> <p><b>OSHA-PEL</b>            TWA: 2 mg/m3</p>
Tetrasodium ethylenediamine tetraacetate	<p><b>ACGIH-TLV</b>            Not established</p> <p><b>OSHA-PEL</b>            TWA: 15 mg/m3</p>

### Engineering controls

General ventilation normally adequate.

### Personal protective equipment

#### Eye / face protection

Wear chemical goggles.  
 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.

<b>Skin and body protection</b>	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.
<b>Respiratory protection</b>	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.
<b>General hygiene considerations</b>	Use good industrial hygiene practices in handling this material. 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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<b>Appearance</b>	Clear.
<b>Color</b>	Blue / Green
<b>Form</b>	aqueous solution
<b>Odor</b>	Characteristic
<b>Odor threshold</b>	Not available
<b>Physical state</b>	Liquid
<b>pH</b>	12.85 (Basic)
<b>Freezing point</b>	Not available
<b>Boiling point</b>	Not available
<b>Pour point</b>	Not available
<b>Evaporation rate</b>	Not available
<b>Flash point</b>	> 199.99 °F (> 93.33 °C) Tagliabue
<b>Auto-ignition temperature</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>	1.02 @ 25°C
<b>Octanol/water coefficient</b>	Not available
<b>Solubility (H2O)</b>	Complete

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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>	Caustics. Oxidizers. Acids.
<b>Hazardous decomposition products</b>	May include and are not limited to: Oxides of carbon.
<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
Alcohols, C9-11, ethoxylated	5 mg/l/4h rat
Alkyl (50%C14, 40%C12, 10%C16) dimethyl benzyl ammonium chlorides	Not available
Ethanol	31623 ppm rat
Ethanol, 2-(2-butoxyethoxy)-	Not available
Sodium carbonate	400 mg/m3 guinea pig
Sodium hydroxide	Not available
Tetrasodium ethylenediamine tetraacetate	Not available

**Component analysis - Oral LD50**

Ingredient(s)	LD50
Alcohols, C9-11, ethoxylated	1200 mg/kg rat
Alkyl (50%C14, 40%C12, 10%C16) dimethyl benzyl ammonium chlorides	426 mg/kg rat
Ethanol	3450 mg/kg mouse; 7060 mg/kg rat
Ethanol, 2-(2-butoxyethoxy)-	2000 mg/kg guinea pig; 3384 mg/kg rat; 2200 mg/kg rabbit
Sodium carbonate	4090 mg/kg rat
Sodium hydroxide	Not available
Tetrasodium ethylenediamine tetraacetate	2000 mg/kg rat

**Effects of acute exposure**

<b>Eye</b>	Causes eye damage.
<b>Skin</b>	Causes skin burns.
<b>Inhalation</b>	None expected during normal conditions of use.
<b>Ingestion</b>	May be 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.

**ACGIH - Threshold Limit Values - Carcinogens**

Ethanol	64-17-5	A3 - Confirmed Animal Carcinogen with Unknown Relevance to Humans
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<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

**12. Ecological Information**

**Ecotoxicity** This pesticide is toxic to fish, aquatic invertebrates, oysters and shrimp.

**Ecotoxicity - Freshwater Algae Data**

Ethanol, 2-(2-butoxyethoxy)-	112-34-5	96 Hr EC50 <i>Desmodesmus subspicatus</i> : >100 mg/L
Sodium carbonate	497-19-8	120 Hr EC50 <i>Nitzschia</i> : 242 mg/L
Tetrasodium ethylenediamine tetraacetate	64-02-8	72 Hr EC50 <i>Desmodesmus subspicatus</i> : 1.01 mg/L

**Ecotoxicity - Freshwater Fish Species Data**

Ethanol	64-17-5	96 Hr LC50 <i>Oncorhynchus mykiss</i> : 12.0-16.0 ml/L [static]; 96 Hr LC50 <i>Pimephales promelas</i> : >100 mg/L [static]; 96 Hr LC50 <i>Pimephales promelas</i> : 13400-15100 mg/L [flow-through]
Ethanol, 2-(2-butoxyethoxy)-	112-34-5	96 Hr LC50 <i>Lepomis macrochirus</i> : 1300 mg/L [static]
Sodium carbonate	497-19-8	96 Hr LC50 <i>Lepomis macrochirus</i> : 300 mg/L [static]; 96 Hr LC50 <i>Pimephales promelas</i> : <310-1220 mg/L [static]
Sodium hydroxide	1310-73-2	96 Hr LC50 <i>Oncorhynchus mykiss</i> : 45.4 mg/L [static]
Tetrasodium ethylenediamine tetraacetate	64-02-8	96 Hr LC50 <i>Lepomis macrochirus</i> : 41 mg/L [static]; 96 Hr LC50 <i>Pimephales promelas</i> : 59.8 mg/L [static]

**Ecotoxicity - Water Flea Data**

Ethanol	64-17-5	48 Hr LC50 <i>Daphnia magna</i> : 9268 - 14221 mg/L; 24 Hr EC50 <i>Daphnia magna</i> : 10800 mg/L; 48 Hr EC50 <i>Daphnia magna</i> : 2 mg/L [Static]
Ethanol, 2-(2-butoxyethoxy)-	112-34-5	24 Hr EC50 <i>Daphnia magna</i> : 2850 mg/L; 48 Hr EC50 <i>Daphnia magna</i> : >100 mg/L
Sodium carbonate	497-19-8	48 Hr EC50 <i>Daphnia magna</i> : 265 mg/L
Tetrasodium ethylenediamine tetraacetate	64-02-8	24 Hr EC50 <i>Daphnia magna</i> : 610 mg/L

<b>Environmental effects</b>	Not available
<b>Aquatic toxicity</b>	Not available
<b>Persistence / degradability</b>	Not available
<b>Bioaccumulation / accumulation</b>	Not available
<b>Partition coefficient</b>	Not available
<b>Mobility in environmental media</b>	Not available
<b>Chemical fate information</b>	Not available

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## 13. Disposal Considerations

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<b>Waste codes</b>	Not available
<b>Disposal instructions</b>	Dispose in accordance with all applicable regulations.  PESTICIDE DISPOSAL: Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture or rinsate is a violation of Federal law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency or the Hazardous Waste Representative at the nearest EPA Regional Office for guidance.  CONTAINER DISPOSAL: Non-refillable container. Do not reuse or refill this container. Offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or incineration, or if allowed by state and local authorities, by burning. If burned, stay out of smoke.
<b>Waste from residues / unused products</b>	Not available
<b>Contaminated packaging</b>	Not available

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## 14. Transport Information

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

UN 1760, Corrosive Liquid, NOS (Alkyl Dimethyl Benzyl Ammonium Chloride, Sodium Hydroxide) Class 8, PG III, Limited Quantity, Reclassed as Consumer Commodity ORM-D

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

UN 1760, Corrosive Liquid, NOS (Alkyl Dimethyl Benzyl Ammonium Chloride, Sodium Hydroxide), Class 8, PG III, Limited Quantity

**IMDG (Marine Transport)**

UN 1760, Corrosive Liquid, NOS (Alkyl Dimethyl Benzyl Ammonium Chloride, Sodium Hydroxide), Class 8, PG III, Limited Quantity

**IATA/ICAO (Air)**

UN 1760, Corrosive Liquid, NOS (Alkyl Dimethyl Benzyl Ammonium Chloride, Sodium Hydroxide), 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. 675-54

**U.S. - CERCLA/SARA - Hazardous Substances and their Reportable Quantities**

Sodium hydroxide                      1310-73-2                      1000 Lb final RQ; 454 kg final RQ

**U.S. - CWA (Clean Water Act) - Hazardous Substances**

Sodium hydroxide                      1310-73-2                      Present

**Occupational Safety and Health Administration (OSHA)**

**29 CFR 1910.1200 hazardous chemical**                      Yes

**CERCLA (Superfund) reportable quantity**

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 - 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.

**U.S. - California - 8 CCR Section 339 - Director's List of Hazardous Substances**

Sodium hydroxide 1310-73-2 Present

**U.S. - Louisiana - Reportable Quantity List for Pollutants**

Sodium hydroxide 1310-73-2 1000 Lb final RQ; 454 kg final RQ

**U.S. - Massachusetts - Right To Know List**

Ethanol 64-17-5 Teratogen

Sodium hydroxide 1310-73-2 Present

**U.S. - Minnesota - Hazardous Substance List**

Ethanol 64-17-5 Present

Sodium hydroxide 1310-73-2 Present

**U.S. - New Jersey - Right to Know Hazardous Substance List**

Ethanol 64-17-5 sn 0844

Sodium hydroxide 1310-73-2 sn 1706

**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)

**U.S. - Pennsylvania - RTK (Right to Know) List**

Ethanol 64-17-5 Present

Sodium hydroxide 1310-73-2 Environmental hazard

**U.S. - Rhode Island - Hazardous Substance List**

Ethanol 64-17-5 Toxic; Flammable

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)

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## 16. Other Information

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**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**

36241-94201-4 - Professional LYSOL® Heavy Duty Bathroom Cleaner Concentrate (Use-dilution 1:32 (4oz./gal.)) - 1 gal. - 355385

**Issue date**

08-Jul-2010

**Effective date**

01-Jul-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.