

### 1. Product and Company Identification

**Product Name** LYSOL® Brand II (Kills 99.9% of Viruses & Bacteria) Antibacterial Kitchen Cleaner Complete Clean

**UPC CODES** Refer to Section 16

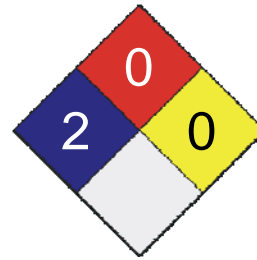
**CAS #** Mixture

**Product Use** Disinfectant

**Distributed by** Reckitt Benckiser (Canada) Inc.  
1680 Tech Avenue Unit #2  
Mississauga, ON L4W 5S9  
In Case of Emergency: 1-800-888-0192  
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	/ 2
Flammability	0
Physical Hazard	0
Personal Protection	B



### 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.

**CAUTION**

EYE IRRITANT. DO NOT get in eyes. Wash thoroughly with soap and water after handling. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals.

Keep out of reach of children.

**Potential short term health effects**

**Routes of exposure**

Eye, Skin contact, Inhalation, Ingestion.

**Eyes**

May cause eye irritation.

**Skin**

Non-irritating to the skin.

Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals.

**Inhalation**

None expected during normal conditions of use.

**Ingestion**

None expected during normal conditions of use. Not orally toxic.

**Target organs**

Skin. Eyes.

**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.

### 3. Composition/Information on Ingredients

Ingredient(s)	CAS #	Percent
N-Alkyl (40% C12, 50% C14, 10% C16) dimethyl benzyl ammonium chloride	68424-85-1	0 - 0.1
N-Alkyl (1% C8, 1% C10, 67% C12, 25% C14, 7% C16, 1% C18) dimethyl benzyl ammonium chloride	63449-41-2	0 - 0.1

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## 4. First Aid Measures

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### First aid procedures

<b>Eye contact</b>	If in eyes, IMMEDIATELY flush eyes thoroughly with water. Remove any contact lenses and continue to flush eyes with water for at least 15 minutes. Get medical attention if irritation persists.
<b>Skin contact</b>	If on skin, wash area with plenty of soap and water. Get medical attention if irritation develops.
<b>Inhalation</b>	Remove to fresh air.
<b>Ingestion</b>	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.

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## 5. Fire-fighting Measures

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### Flammable properties

Not flammable by WHMIS criteria.

### Extinguishing media

**Suitable extinguishing media** Water spray. Foam. Dry chemical. Carbon dioxide.

**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 nitrogen. Oxides of carbon.

### Explosion data

**Sensitivity to mechanical impact** Not available

**Sensitivity to static discharge** Not available

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## 6. Accidental Release Measures

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### 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.

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## 7. Handling and Storage

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### Handling

CAUTION

May cause eye irritation. Avoid contact with eyes.

Use good industrial hygiene practices in handling this material. When using do not eat or drink.

### Storage

Store in original container in a cool, secure area inaccessible to children and pets. Keep in properly labelled containers.

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## 8. Exposure Controls / Personal Protection

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### Exposure limit values

Ingredient(s)	Exposure limit values
N-Alkyl (1% C8, 1% C10, 67% C12, 25% C14, 7% C16, 1% C18) dimethyl benzyl ammonium chloride	<b>ACGIH-TLV</b> Not established

N-Alkyl (40% C12, 50% C14, 10% C16) dimethyl benzyl ammonium chloride	<b>ACGIH-TLV</b> Not established
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**Engineering controls** General ventilation normally adequate.

### Personal protective equipment

<b>Eye/Face protection</b>	Avoid contact with eyes. If splashing is likely to occur or for occupational exposures, wear appropriate eye protection. Emergency responders should wear full eye and face protection.
<b>Hand protection</b>	For sensitive skin or prolonged use, wear rubber gloves. 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>	No special requirements 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>	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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<b>Appearance</b>	Liquid
<b>Colour</b>	Water white
<b>Form</b>	aqueous solution
<b>Odour</b>	Lemon
<b>Odour threshold</b>	Not available
<b>Physical state</b>	Liquid
<b>pH</b>	11.3 (Basic)
<b>Freezing point</b>	Not available
<b>Boiling point</b>	Not available
<b>Pour point</b>	Not available
<b>Flash point</b>	> 93.3 °C (> 199.94 °F) 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>Vapour pressure</b>	Not available
<b>Vapour density</b>	Not available
<b>Specific gravity</b>	1.0 (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. Excessive heat.
<b>Incompatible materials</b>	Acids. Oxidizers.

**Hazardous decomposition products** May include and are not limited to: Oxides of nitrogen. Oxides of carbon.  
**Possibility of hazardous reactions** Hazardous polymerisation does not occur.

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## 11. Toxicological Information

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### Component analysis - LC50

Ingredient(s)	LC50
N-Alkyl (1% C8, 1% C10, 67% C12, 25% C14, 7% C16, 1% C18) dimethyl benzyl ammonium chloride	Not available
N-Alkyl (40% C12, 50% C14, 10% C16) dimethyl benzyl ammonium chloride	Not available

### Component analysis - Oral LD50

Ingredient(s)	LD50
N-Alkyl (1% C8, 1% C10, 67% C12, 25% C14, 7% C16, 1% C18) dimethyl benzyl ammonium chloride	Not available
N-Alkyl (40% C12, 50% C14, 10% C16) dimethyl benzyl ammonium chloride	Not available

### Effects of acute exposure

<b>Eye</b>	May cause eye irritation.
<b>Skin</b>	Non-irritating to the skin. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals.
<b>Inhalation</b>	None expected during normal conditions of use.
<b>Ingestion</b>	None expected during normal conditions of use. Not orally toxic.
<b>Sensitisation</b>	Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals.
<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>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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<b>Ecotoxicity</b>	Not available
<b>Environmental effects</b>	Not available
<b>Aquatic toxicity</b>	Not available
<b>Persistence and 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
<b>Other adverse effects</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. Do not reuse empty container. Rinse container and offer for recycling where facilities exist.
<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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**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

**Maximum Quantity** Not applicable

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## 15. Regulatory Information

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**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 02246379

**WHMIS classification** Exempt - Registered product - (DIN 02246379)

### Inventory Status

Country(s) or region	Inventory Name	On Inventory (Yes/No)*
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No

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** 59631-50305-3 - LYSOL® Brand II (Kills 99.9% of Viruses & Bacteria) Antibacterial Kitchen Cleaner Complete Clean - 650 mL - Citrus Scent - 0160711

**Issue date** 01-Jun-2010

**Effective Date** 01-Jun-2010

**Expiry Date** 01-Jun-2013

**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.