

## 1. Product and Company Identification

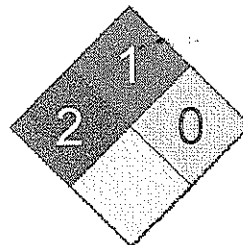
**Product Name** LYSOL® Disinfectant Bathroom Cleaning Foam Complete Clean - All Scents  
**CAS #** Mixture  
 This MSDS is designed for workplace employees, emergency personnel and for other conditions and situations where there is a greater potential for large-scale or prolonged exposure, in accordance with requirements of the Canadian Workplace Hazardous Materials Information System (WHMIS).  
 This MSDS is not applicable for consumer use of our products. For consumer use, all precautionary and first aid language is provided on the product label in accordance with the applicable government regulation.

**Product Use** Bathroom 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

Health	/ 2
Flammability	1
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**  
**EXPLOSIVE.**  
**EYE IRRITANT.**  
 Avoid contact with eyes, skin and food.  
 DO NOT mix with other chemicals.  
 Contents under pressure.  
 DO NOT place in hot water or near radiators, stoves or other sources of heat.  
 DO NOT puncture or incinerate container, even when empty, or store at temperatures over 50°C.

Keep out of reach of children.

**Potential short term health effects**

<b>Routes of exposure</b>	Eye, Skin contact, Inhalation, Ingestion.
<b>Eyes</b>	Moderate eye irritation.
<b>Skin</b>	None expected during normal conditions of use. Not expected to be a skin sensitizer.
<b>Inhalation</b>	None expected during normal conditions of use.
<b>Ingestion</b>	Health injuries are not known or expected under normal use.
<b>Target organs</b>	Skin. Eyes. Respiratory system.
<b>Chronic effects</b>	The finished product is not expected to have chronic health effects.
<b>Signs and symptoms</b>	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

Ingredient(s)	CAS #	Percent
Octyl Decyl Dimethyl Ammonium Chloride	Not Applicable	0 - 0.1
Dioctyl Dimethyl Ammonium Chloride	Not Applicable	0 - 0.1
Didecyl Dimethyl Ammonium Chloride	7173-51-5	0 - 0.1
Tetrasodium ethylenediamine tetraacetate	64-02-8	3 - 7
Diethylene glycol monobutyl ether	112-34-5	3 - 7
Isobutane	75-28-5	5 - 10

### 4. First Aid Measures

#### First aid procedures

##### Eye contact

If in eyes, immediately flush eyes with water. Remove any contact lenses and continue flushing for at least 15 minutes. Call physician if irritation persists.

##### Skin contact

If on skin, wash thoroughly with soap and water. Call a physician if irritation persists.

##### Inhalation

Move to fresh air.

##### Ingestion

If swallowed, drink large quantities of milk or water. Call a physician or a Poison Control Centre immediately. Do not induce vomiting. Never give anything by mouth to an unconscious person.

#### Notes to physician

Symptoms may be delayed. Treat patient symptomatically.

#### General advice

Do not puncture or incinerate container. 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.

NOTE TO PARENTS: Intentional misuse by deliberately concentrating and inhaling aerosol products may be harmful or fatal. Help stop inhalation abuse; for information visit [www.inhalant.org](http://www.inhalant.org).

### 5. Fire-fighting Measures

#### Flammable properties

Aerosol flame extension less than 18 inches (45 cm).

NFPA AEROSOL LEVEL: Flammability Rating 1, per NFPA 30B

#### 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

Contents under pressure. Pressurized container may explode when exposed to heat or flame. Cool containers with flooding quantities of water until well after fire is out.

##### 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.

#### 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. Advise authorities if product has penetrated drains, sewers or water pipes.

#### Methods for containment

Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). 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. Remove sources of ignition. Although the chance of a significant spill or leak is unlikely in aerosol containers, in the event of such an occurrence, absorb spilled material with a non-flammable absorbent such as sand or vermiculite. Wipe up with absorbent material (e.g. cloth, fleece).

### 7. Handling and Storage

Handling

Ensure adequate ventilation.  
Avoid contact with eyes, skin, clothing and contamination of food.  
Use good industrial hygiene practices in handling this material.  
When using do not eat or drink.  
Wash hands before breaks and immediately after handling the product.  
Always replace cap after use.  
Avoid breathing mists or vapours.  
Read and follow product label instructions.  
Contents under pressure. Do not puncture or incinerate cans.

Storage

Do not contaminate water, food or feed by use or storage.  
Store in original container in areas inaccessible to small children.  
Do not use or store near heat or open flame.  
Do not reuse container.  
Exposure to temperatures above 120°F or in sun or discarding can in fire or incinerator may cause bursting.  
Store in original container in areas inaccessible to small children and pets.  
It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

### 8. Exposure Controls / Personal Protection

Exposure limit values

Ingredient(s)	Exposure limit values
Didecyl Dimethyl Ammonium Chloride	ACGIH-TLV Not established
Diethylene glycol monobutyl ether	ACGIH-TLV Not established
Dioctyl Dimethyl Ammonium Chloride	ACGIH-TLV Not established
Isobutane	ACGIH-TLV TWA: 1000 ppm
Octyl Decyl Dimethyl Ammonium Chloride	ACGIH-TLV Not established
Tetrasodium ethylenediamine tetraacetate	ACGIH-TLV Not established

Engineering controls

General ventilation normally adequate.

Personal protective equipment

Consult the product label for special protection or precautions that have been identified for using this product under directed consumer use conditions. The following recommendations are given for workplace employees, emergency personnel and for other conditions and situations where there is a greater potential for large-scale or prolonged exposure.

Eye / face protection

Safety goggles or glasses.  
Emergency responders should wear full eye and face protection.

Hand protection

Wear impervious gloves where the potential for contact with the liquid is possible.  
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.

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	Spray
Colour	White.
Form	Spray
Odour	Various
Odour threshold	Not available
Physical state	Liquid
pH	12.5
Freezing point	Not available
Boiling point	Not available
Pour point	Not available
Evaporation Rate	Not available
Flash point	> 93.33 °C (> 200 °F) TCC
Auto-ignition temperature	Not available
Flammability limits in air, lower, % by volume	Not available
Flammability Limits in Air, Upper, % by Volume	Not available
Vapour pressure	Not available
Vapour density	Not available
Specific gravity	8.6 lbs/gal
Octanol/water coefficient	Not available
Solubility (H <sub>2</sub> O)	Complete
VOC (Weight %)	Not available
Viscosity	Not available
Percent volatile	Not available

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## 10. Stability and Reactivity

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<b>Reactivity</b>	This product may react with strong acids.
<b>Possibility of hazardous reactions</b>	Hazardous polymerisation does not occur.
<b>Chemical stability</b>	Stable under recommended storage conditions.
<b>Conditions to avoid</b>	Aerosol containers are unstable at temperatures above 49°C (120.2°F). DO NOT MIX WITH BLEACH or use in conjunction with other household products. Excessive heat. Extremes of temperature and direct sunlight. Do not pierce or burn after use. Do not spray on a naked flame, onto or near a fire, or any incandescent material such as an electric fire.
<b>Incompatible materials</b>	Oxidizers. Acids.
<b>Hazardous decomposition products</b>	May include and are not limited to: Oxides of carbon. Oxides of nitrogen.

## 11. Toxicological Information

### Component analysis - LC50

Ingredient(s)	LC50
Didecyl Dimethyl Ammonium Chloride	Not available
Diethylene glycol monobutyl ether	Not available
Dioctyl Dimethyl Ammonium Chloride	Not available
Isobutane	658 mg/l/4h rat
Octyl Decyl Dimethyl Ammonium Chloride	Not available
Tetrasodium ethylenediamine tetraacetate	Not available

### Component analysis - Oral LD50

Ingredient(s)	LD50
Didecyl Dimethyl Ammonium Chloride	Not available
Diethylene glycol monobutyl ether	2000 mg/kg guinea pig; 3384 mg/kg rat; 2200 mg/kg rabbit
Dioctyl Dimethyl Ammonium Chloride	Not available
Isobutane	Not available
Octyl Decyl Dimethyl Ammonium Chloride	Not available
Tetrasodium ethylenediamine tetraacetate	2000 mg/kg rat

### Effects of acute exposure

<b>Eye</b>	Moderate eye irritation.
<b>Skin</b>	None expected during normal conditions of use. Not expected to be a skin sensitizer.
<b>Inhalation</b>	None expected during normal conditions of use.
<b>Ingestion</b>	Health injuries are not known or expected under normal use.
<b>Sensitisation</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>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>Name of Toxicologically Synergistic Products</b>	Not available

## 12. Ecological Information

<b>Ecotoxicity</b>	See below
<b>Ecotoxicity - Freshwater Algae - Acute Toxicity Data</b>	
Diethylene glycol monobutyl ether	112-34-5      96 Hr EC50 Desmodesmus subspicatus: >100 mg/L
Tetrasodium ethylenediamine tetraacetate	64-02-8      72 Hr EC50 Desmodesmus subspicatus: 1.01 mg/L
<b>Ecotoxicity - Freshwater Fish - Acute Toxicity Data</b>	
Diethylene glycol monobutyl ether	112-34-5      96 Hr LC50 Lepomis macrochirus: 1300 mg/L [static]
Tetrasodium ethylenediamine tetraacetate	64-02-8      96 Hr LC50 Lepomis macrochirus: 41 mg/L [static]; 96 Hr LC50 Pimephales promelas: 59.8 mg/L [static]
<b>Ecotoxicity - Water Flea - Acute Toxicity Data</b>	
Diethylene glycol monobutyl ether	112-34-5      24 Hr EC50 Daphnia magna: 2850 mg/L; 48 Hr EC50 Daphnia magna: >100 mg/L
Tetrasodium ethylenediamine tetraacetate	64-02-8      24 Hr EC50 Daphnia magna: 610 mg/L
<b>Persistence and degradability</b>	Not available
<b>Bioaccumulation/accumulation</b>	Not available
<b>Mobility in environmental media</b>	Not available
<b>Environmental effects</b>	Not available
<b>Aquatic toxicity</b>	Not available

Partition coefficient	Not available
Chemical fate information	Not available
Other adverse effects	Not available

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### 13. Disposal Considerations

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Disposal instructions	Review federal, state/provincial, and local government requirements prior to disposal. Discard with solid waste. Do not reuse empty container. Replace cap and discard in trash. Do not incinerate or puncture. Empty containers should be recycled.
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 1950, Aerosols, Class 2.1, Limited Quantity

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

UN 1950, Aerosols, Class 2.1, Limited Quantity/LTD QTY

#### IMDG (Marine Transport)

UN 1950, Aerosols, Class 2.1, Limited Quantity

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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 02270498

**Canada - CEPA - High Priority Chemicals as Identified by DSL Categorization**

Isobutane 75-28-5 Batch 4, published November 17, 2007

**Canada - WHMIS - Ingredient Disclosure List**

Diethylene glycol monobutyl ether 112-34-5 1 %

**WHMIS classification** Exempt - Registered product - (DIN 02270498)

**Inventory Status**

Country(s) or region	Inventory Name	On Inventory (Yes/No)*
Canada	Domestic Substances List (DSL)	No
Canada	Non-Domestic Substances List (NDSL)	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** LYSOL® Disinfectant Bathroom Cleaning Foam Complete Clean - Original Scent, 680g - 0074422v3.0

LYSOL® Disinfectant Bathroom Cleaning Foam Complete Clean - Summer Fresh, 680g - 0074419v3.0

**Issue date** 30-Jul-2013

**Effective Date** 31-Jul-2013

**Expiry Date** 31-Jul-2016

**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.