

1. Product and Company Identification

Product name LYSOL® IC™ Foaming Disinfectant Cleaner (Aerosol)
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 U.S. Government's Occupational Safety and Health Administration (OSHA).

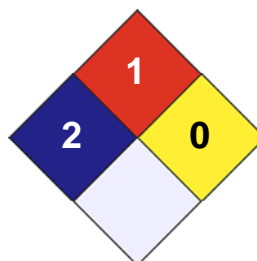
This MSDS is not applicable for consumer use of our products. For consumer use, all precautionary and first aid language is provided on the product label in accordance with the applicable government regulation.

Product Use Disinfectant

Distributed by Reckitt Benckiser
 Morris Corporate Center IV
 399 Interpace Parkway
 P.O. Box 225
 Parsippany, NJ 07054-0225
 In Case of Emergency: 1-800-338-6167
 Transportation Emergencies: 24 Hour Number:
 North America: CHEMTREC: 1-800-424-9300
 Outside North America: 1-703-527-3887

LEGEND	
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 the US EPA as a disinfectant.

PRECAUTIONARY STATEMENTS: HAZARDS TO HUMANS AND DOMESTIC ANIMALS.

CAUTION

Causes moderate eye irritation.

Avoid contact with eyes, skin or clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum or using tobacco.

PHYSICAL AND CHEMICAL HAZARDS: Contents under pressure. Do not use or store near heat or open flame. Do not puncture or incinerate container. Exposure to temperatures above 120°F or in sun or discarding can in fire or incinerator may cause bursting.

KEEP OUT OF REACH OF CHILDREN.

Potential short term health effects

Routes of exposure Eye, Skin contact, Inhalation, Ingestion.

Eyes Moderate eye irritation.

Skin None expected during normal conditions of use.
 Not expected to be a skin sensitizer.

Inhalation None expected during normal conditions of use.

Ingestion Health injuries are not known or expected under normal use.

Target organs Skin. Eyes. Respiratory system.

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.
OSHA regulatory status	This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.
Potential environmental effects	See section 12.

3. Composition/Information on Ingredients

Components	CAS #	Percent
Diethylene glycol monobutyl ether	112-34-5	2.5 - 10
Isobutane	75-28-5	2.5 - 10
Tetrasodium ethylenediamine tetraacetate	64-02-8	2.5 - 10
Didecyl Dimethyl Ammonium Chloride	7173-51-5	0 - 0.1
Diocetyl Dimethyl Ammonium Chloride	Not Applicable	0 - 0.1
Octyl Decyl Dimethyl Ammonium Chloride	Not Applicable	0 - 0.1

4. First Aid Measures

First aid procedures

Eye contact	If in eyes, 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.
Skin contact	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.
Inhalation	Remove to fresh air.
Ingestion	Rinse mouth with water. DO NOT induce vomiting. NEVER give an unconscious person anything to ingest. If symptoms persist, call a physician or Poison Control Center immediately.

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. Have the product container or label with you when calling a poison control center or doctor, or going for treatment.

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.

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 and precautions 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	Ensure adequate ventilation. 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	CAUTION May cause eye irritation. Avoid contact with eyes, skin and clothing. Avoid breathing mists or vapors. When using do not eat or drink. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum or using tobacco. Always replace cap after use. Contents under pressure. Do not puncture or incinerate container. Read and follow product label for instructions. Ensure adequate ventilation. Use good industrial hygiene practices in handling this material.
Storage	Do not contaminate water, food or feed by use or storage. Store in original container in areas inaccessible to small children. Keep securely closed. Do not use or store near heat or open flame. Do not reuse empty container. Pressurised container: protect from sunlight and do not expose to temperatures exceeding 50°C (120°F). Do not pierce or burn after use. Keep away from all sources of ignition. Fires involving aerosols with flammable contents are severe and can spread quickly. Warehouses or stores containing aerosols should therefore be separated from other areas by a fire resistant construction. Stores should be well ventilated. The natural ventilation in a large open warehouse building will normally be suitable. It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

8. Exposure Controls/Personal Protection

Occupational exposure limits

US. ACGIH Threshold Limit Values

Components	Type	Value	Form
Diethylene glycol monobutyl ether (CAS 112-34-5)	STEL	10 ppm	Inhalable fraction and vapor.
Isobutane (CAS 75-28-5)	STEL	1000 ppm	

Exposure limits	Chemicals listed in section 3 that are not listed here do not have established limit values for ACGIH or OSHA PEL.
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.

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

9. Physical and Chemical Properties

Appearance	Spray
Color	White
Form	Spray
Odor	Marine
Odor threshold	Not available.
Physical state	Gas.
pH	12.5 (Basic)
Freezing point	Not available.
Boiling point	Not available
Pour point	Not available.
Evaporation rate	Not available
Flash point	> 200.00 °F (> 93.33 °C) Tag Closed Cup
Auto-ignition temperature	Not available
Flammability limits in air, upper, % by volume	Not available
Flammability limits in air, lower, % by volume	Not available
Vapor pressure	Not available
Vapor density	Not available
Specific gravity	8.6 lbs/gal
Partition coefficient (n-octanol/water)	Not available.
Solubility (water)	Complete
Relative density	Not available.
Viscosity	Not available.
VOC	Not available
Percent volatile	Not available

10. Stability and Reactivity

Reactivity	This product may react with strong acids. This product may react with oxidizing agents.
Possibility of hazardous reactions	Hazardous polymerization does not occur.
Chemical stability	Stable under recommended storage conditions.
Conditions to avoid	Excessive heat. Aerosol containers are unstable at temperatures above 49°C (120.2°F). Protect from sunlight and do not expose to temperatures exceeding 50°C (120°F). DO NOT MIX WITH BLEACH or use in conjunction with other household products. 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.
Incompatible materials	Oxidizers. Acids.

11. Toxicological Information

Toxicological data

Components	Species	Test Results
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Didecyl Dimethyl Ammonium Chloride (CAS 7173-51-5)

Acute

Dermal

LD50	Rabbit	2730 mg/kg
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Oral

LD50	Mouse	268 mg/kg
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	Rat	84 mg/kg
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LC50

Not available.

Diethylene glycol monobutyl ether (CAS 112-34-5)

Acute

Dermal

LD50	Rabbit	2700 mg/kg
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Oral

LD50	Guinea pig	2000 mg/kg
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	Mouse	2400 mg/kg
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	Rabbit	2200 mg/kg
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	Rat	3384 mg/kg
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LC50

Not available.

Diocetyl Dimethyl Ammonium Chloride (CAS Not Applicable)

LC50

Not available.

LD50

Not available.

Isobutane (CAS 75-28-5)

Acute

Inhalation

LC50	Rat	658 mg/l/4h
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LD50

Not available.

Octyl Decyl Dimethyl Ammonium Chloride (CAS Not Applicable)

LC50

Not available.

LD50

Not available.

Tetrasodium ethylenediamine tetraacetate (CAS 64-02-8)

Acute

Oral

LD50	Rat	2000 mg/kg
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LC50

Not available.

Effects of acute exposure

Eye contact	Moderate eye irritation.
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Skin contact	None expected during normal conditions of use. Not expected to be a skin sensitizer.
Inhalation	None expected during normal conditions of use.
Ingestion	Health injuries are not known or expected under normal use.
Sensitization	The finished product is not expected to have chronic health effects.
Chronic effects	The finished product is not expected to have chronic health effects.
Carcinogenicity	The finished product is not expected to have chronic health effects.
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.
Name of Toxicologically Synergistic Products	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.

Ecotoxicological data

Components	Species		Test Results
Didecyl Dimethyl Ammonium Chloride (CAS 7173-51-5)			
Aquatic			
Fish	LC50	White sturgeon (Acipenser transmontanus)	0 - 0 mg/l, 96 hours
Diethylene glycol monobutyl ether (CAS 112-34-5)			
Aquatic			
Crustacea	EC50	Daphnia	2850 mg/L, 48 Hours
Fish	LC50	Bluegill (Lepomis macrochirus)	1300 mg/l, 96 hours
Tetrasodium ethylenediamine tetraacetate (CAS 64-02-8)			
Algae	IC50	Algae	1 mg/L, 72 Hours
Aquatic			
Fish	LC50	Bluegill (Lepomis macrochirus)	472 - 500 mg/l, 96 hours
Persistence and degradability	Not available.		
Bioaccumulation / Accumulation	Not available		
Mobility in environmental media	Not available.		
Environmental effects	Not available.		
Aquatic toxicity	Not available.		
Partition coefficient			
Diethylene glycol monobutyl ether		0.56	
Isobutane		2.76	
Chemical fate information	Not available.		

13. Disposal Considerations

Disposal instructions	Review federal, state and local government requirements prior to disposal. Nonrefillable container. Do not reuse empty container. Do not puncture or incinerate. IF EMPTY: Place in trash or offer for recycling if available. IF PARTLY FILLED: Call your local waste agency for disposal instructions.
Waste from residues / unused products	Not available
Contaminated packaging	Not available

14. Transport Information

U.S. Department of Transportation (DOT)

UN 1950, Aerosols, Class 2.1, Re-classed as Limited Quantity

Transportation of Dangerous Goods (TDG - Canada)

UN 1950, Aerosols, Class 2.1, Re-classed as Limited Quantity

IATA/ICAO (Air)

UN1950, Aerosols, Flammable, Limited Quantity

IMDG (Marine Transport)

UN 1950, Aerosols, Class 2.1, Limited Quantity

15. Regulatory Information

Occupational Safety and Health Administration (OSHA)

29 CFR 1910.1200 Yes
hazardous chemical

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. 777-71-675

US EPCRA (SARA Title III) Section 313 - Toxic Chemical: De minimis concentration

Diethylene glycol monobutyl ether (CAS 112-34-5) 1.0 % N230

US EPCRA (SARA Title III) Section 313 - Toxic Chemical: Listed substance

Diethylene glycol monobutyl ether (CAS 112-34-5) Listed. N230

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)

Diethylene glycol monobutyl ether (CAS 112-34-5) Listed.

Isobutane (CAS 75-28-5) Listed.

US CAA Section 111 Volatile Organic Compounds: Listed substance

Diethylene glycol monobutyl ether (CAS 112-34-5) Listed.

US CAA Section 112(r) Accidental Release Prevention - Regulated Flammable Substance: Listed substance

Isobutane (CAS 75-28-5) Regulated flammable substance.

US CAA Section 112(r) Accidental Release Prevention: Threshold quantity

Isobutane (CAS 75-28-5) 10000 lbs

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Isobutane (CAS 75-28-5) Listed.

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Diethylene glycol monobutyl ether (CAS 112-34-5) Listed.

CERCLA (Superfund) reportable quantity

None

Superfund Amendments and Reauthorization Act of 1986 (SARA)

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

State regulations

This product is not subject to warning labeling under the California Proposition 65 regulation.

US - Illinois Chemical Safety Act: Listed substance

Diethylene glycol monobutyl ether (CAS 112-34-5) Listed.

Isobutane (CAS 75-28-5) Listed.

US - Louisiana Spill Reporting List: Reportable quantity (total mass into atmosphere)

Diethylene glycol monobutyl ether (CAS 112-34-5) 100 lbs

US - Louisiana Spill Reporting: Listed substanceDiethylene glycol monobutyl ether (CAS 112-34-5) Listed.
Isobutane (CAS 75-28-5) Listed.**US - Minnesota Haz Subs: Listed substance**

Isobutane (CAS 75-28-5) Listed.

US - New Jersey RTK - Substances: Listed substanceDiethylene glycol monobutyl ether (CAS 112-34-5) Listed.
Isobutane (CAS 75-28-5) Listed.**US - Texas Effects Screening Levels: Listed substance**Didecyl Dimethyl Ammonium Chloride (CAS 7173-51-5) Listed.
Diethylene glycol monobutyl ether (CAS 112-34-5) Listed.
Isobutane (CAS 75-28-5) Listed.
Tetrasodium ethylenediamine tetraacetate (CAS 64-02-8) Listed.**US. Massachusetts RTK - Substance List**

Isobutane (CAS 75-28-5) Listed.

US. Pennsylvania RTK - Hazardous SubstancesDiethylene glycol monobutyl ether (CAS 112-34-5) Listed.
Isobutane (CAS 75-28-5) Listed.**US. Rhode Island RTK**Diethylene glycol monobutyl ether (CAS 112-34-5) Listed.
Isobutane (CAS 75-28-5) Listed.

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

LYSOL® IC™ Foaming Disinfectant Cleaner, 24 oz - 0074422v3.0

Issue date

28-August-2013

Effective date

31-August-2013

Prepared by

Reckitt Benckiser Regulatory Department Phone: 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.