

1. Product and Company Identification

Product Name Professional LYSOL® Brand Disinfectant Foam Cleaner for Multiple Surfaces (Aerosol)

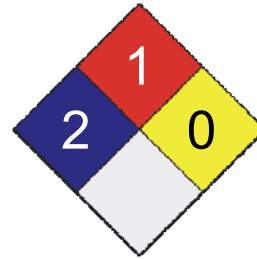
CAS # Mixture
This MSDS is designed for workplace employees, emergency personnel and for other conditions and situations where there is a greater potential for large-scale or prolonged exposure, in accordance with requirements of the U.S. Government's Occupational Safety and Health Administration (OSHA). 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 cleaner

Distributed by Reckitt Benckiser
 Morris Corporate Center IV
 399 Interpace Parkway
 P.O. Box 225
 Parsippany, NJ 07054-0225
 In Case of Emergency: 1-800-338-6167
 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 the US EPA as a disinfectant.

PRECAUTIONARY STATEMENTS: HAZARDS TO HUMANS AND DOMESTIC ANIMALS
 CAUTION
 Causes moderate eye irritation. Avoid contact with skin, eyes 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

Components of this product have been identified as having potential environmental concerns.

3. Composition / Information on Ingredients

Ingredient(s)	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
Dioctyl 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

Move to fresh air.

Ingestion

If swallowed, drink large quantities of milk or water. Call a physician or a Poison Control Center 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.

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	<p>Ensure adequate ventilation.</p> <p>Avoid contact with eyes, skin, clothing and contamination of food.</p> <p>Use good industrial hygiene practices in handling this material.</p> <p>When using do not eat or drink.</p> <p>Wash hands before breaks and immediately after handling the product.</p> <p>Always replace cap after use.</p> <p>Avoid breathing mists or vapors.</p> <p>Read and follow product label instructions.</p> <p>Contents under pressure. Do not puncture or incinerate cans.</p>
Storage	<p>Do not contaminate water, food or feed by use or storage.</p> <p>Do not use or store near heat or open flame.</p> <p>Do not reuse container.</p> <p>Exposure to temperatures above 120°F or in sun or discarding can in fire or incinerator may cause bursting.</p> <p>Store in original container in areas inaccessible to small children and pets.</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
Didecyl Dimethyl Ammonium Chloride	ACGIH-TLV Not established OSHA-PEL Not established
Diethylene glycol monobutyl ether	ACGIH-TLV Not established OSHA-PEL Not established
Dioctyl Dimethyl Ammonium Chloride	ACGIH-TLV Not established OSHA-PEL Not established
Isobutane	ACGIH-TLV TWA: 1000 ppm OSHA-PEL Not established
Octyl Decyl Dimethyl Ammonium Chloride	ACGIH-TLV Not established OSHA-PEL Not established
Tetrasodium ethylenediamine tetraacetate	ACGIH-TLV Not established OSHA-PEL TWA: 15 mg/m3

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.

9. Physical and Chemical Properties

Appearance	Spray
Color	White.
Form	Spray

Odor	Various
Odor 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	> 200 °F (> 93.33 °C) Tag Closed Cup
Auto-ignition temperature	Not available
Flammability limits in air, lower, % by volume	Not available
Flammability limits in air, upper, % by volume	Not available
Vapor pressure	Not available
Vapor density	Not available
Specific gravity	8.6 lbs/gal
Octanol/water coefficient	Not available
Solubility (H2O)	Complete
VOC (Weight %)	Not available
Viscosity	Not available
Percent volatile	Not available

10. Stability and Reactivity

Reactivity	This product may react with strong acids.
Possibility of hazardous reactions	Hazardous polymerization does not occur.
Chemical stability	Stable under recommended storage conditions.
Conditions to avoid	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.
Incompatible materials	Oxidizers. Acids.
Hazardous decomposition products	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

Eye	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.
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	See below
Ecotoxicity - Freshwater Algae - Acute Toxicity Data	
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
Ecotoxicity - Freshwater Fish - Acute Toxicity Data	
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]
Ecotoxicity - Water Flea - Acute Toxicity Data	
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
Persistence / degradability	Not available
Bioaccumulation / accumulation	Not available
Mobility in environmental media	Not available
Environmental effects	Not available
Aquatic toxicity	Not available
Partition coefficient	Not available
Chemical fate information	Not available

13. Disposal Considerations

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

14. Transport Information

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

IATA/ICAO (Air)

UN1950, Aerosols, Flammable, Limited Quantity

15. Regulatory Information

Occupational Safety and Health Administration (OSHA)

29 CFR 1910.1200 hazardous chemical Yes

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

U.S. - CAA (Clean Air Act) - Accidental Release Prevention - Flammable Substances

Isobutane 75-28-5 10000 lb threshold quantity

U.S. - CAA (Clean Air Act) - HON Rule - SOCM Chemicals

Diethylene glycol monobutyl ether 112-34-5 Group I

U.S. - CAA (Clean Air Act) - Reactivity Factors for VOCs in Aerosol Coatings

Diethylene glycol monobutyl ether 112-34-5 2.70 G Ozone/g VOC Reactivity Factor

Isobutane 75-28-5 1.35 G Ozone/g VOC Reactivity Factor

U.S. - CAA (Clean Air Act) - SNAP Program Listing of Substitutes for ODSs

Isobutane 75-28-5 Acceptable substitute for: 6

U.S. - CAA (Clean Air Act) - Volatile Organic Compounds (VOCs) in SOCM

Diethylene glycol monobutyl ether 112-34-5 Present

CERCLA (Superfund) reportable quantity

Sodium hydroxide: 1000.0000

Ammonia: 100.0000

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

Section 302 extremely hazardous substance No

Section 311 hazardous chemical Yes

Clean Water Act (CWA) Hazardous substance

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

U.S. - Massachusetts - Right To Know List

Isobutane 75-28-5 Present

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

Isobutane 75-28-5 sn 1040

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

Isobutane 75-28-5 Present

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

Professional LYSOL® Brand Disinfectant Foam Cleaner for Multiple Surfaces (Aerosol) 24 oz. - 0074422v3.0

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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.