

MATERIAL SAFETY DATA SHEET

1. Product and Company Identification

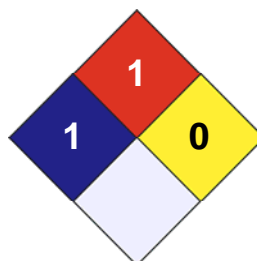
Product name LYSOL® Professional Disinfecting Wipes
CAS # Mixture
This MSDS is designed for workplace employees, emergency personnel and for other conditions and situations where there is a greater potential for large-scale or prolonged exposure, in accordance with requirements of the U.S. Government's 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
 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	/ 1
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
 MAY CAUSE EYE IRRITATION. Avoid contact with eyes. Wash hands after use.
 KEEP OUT OF REACH OF CHILDREN.

Potential short term health effects

Routes of exposure Eye, Skin contact, Inhalation, Ingestion.
Eyes Moderately irritating to the eyes.
Skin Slightly irritating to the skin.
 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 Blood. Eyes. Liver. Respiratory system. Skin.

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.

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
Ethanol	64-17-5	2.5 - 10
Alkyl (50%C14, 40%C12, 10%C16) dimethyl benzyl ammonium chlorides	Not Applicable	0.1 - 1

4. First Aid Measures

First aid procedures

Eye contact	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	In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical attention immediately.
Inhalation	Move exposed person to fresh air. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. Get medical attention immediately.
Ingestion	Wash out mouth with water. Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention immediately.

Notes to physician

Treat patient symptomatically.

General advice

Keep away from sources of ignition. No smoking. 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.

Follow label directions carefully.

5. Fire Fighting Measures

Flammable properties	The flashpoint of the liquid within this product is > 93.3°C (200°F) (Tagliabue).
Extinguishing media	
Suitable extinguishing media	Treat for surrounding material.
Unsuitable extinguishing media	Not available
Protection of firefighters	
Specific hazards arising from the chemical	Not available
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	Avoid contact with eyes. 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	Do not allow product to enter sewer or waterways.
Methods for cleaning up	Remove sources of ignition. Never return spills to original containers for re-use. Pick up and discard towel.

7. Handling and Storage

Handling	Ensure adequate ventilation. Avoid contact with eyes. Wash hands after handling and before eating. Use good industrial hygiene practices in handling this material. Food contact surfaces must be rinsed with potable water. Not recommended for polished or bare wood floors. Do not use on utensils, glasses and dishes. Not intended for personal hygiene. DO NOT PUSH FINGER THROUGH OPENING. Replace lid after each use and keep in cool dry place.
Storage	Store in original container out of reach of small children. Keep securely closed in a cool, well ventilated area. Do not reuse empty container. Rinse and discard or recycle. Do not store at temperatures above 120°F (49°C).

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
Ethanol (CAS 64-17-5)	STEL	1000 ppm

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Components	Type	Value
Ethanol (CAS 64-17-5)	PEL	1900 mg/m ³ 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.

Eye / face protection Avoid contact with eyes.
Emergency responders should wear full eye and face protection.

Hand protection Wash hands after use.
Emergency responders should wear impermeable gloves.

Skin and body protection 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.

Respiratory protection 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.

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	Liquid saturated on wipe
Color	clear liquid
Form	Pre-moistened towelette.
Odor	Various
Odor threshold	Not available.
Physical state	Not available.
pH	9.9 - 11 (Liquid)
Freezing point	Not available.
Boiling point	Not available.

Pour point	Not available.
Evaporation rate	Not available
Flash point	> 200.0 °F (> 93.3 °C) Tagliabue (Liquid)
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	0.97 - 0.996 (Liquid)
Partition coefficient (n-octanol/water)	Not available.
Solubility (water)	Wipe is not soluble
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 oxidizing agents.
Possibility of hazardous reactions	Hazardous polymerization does not occur.
Chemical stability	Stable under recommended storage conditions.
Conditions to avoid	DO NOT MIX WITH BLEACH or use in conjunction with other household products. Heat, open flames, static discharge, sparks and other ignition sources. Keep away from extreme heat. Exposure to moisture. Keep from freezing.
Incompatible materials	Oxidizers.
Hazardous decomposition products	May include and are not limited to: Oxides of carbon. Oxides of nitrogen.

11. Toxicological Information

Toxicological data

Components	Species	Test Results
Alkyl (50%C14, 40%C12, 10%C16) dimethyl benzyl ammonium chlorides (CAS Not Applicable)		
Acute		
<i>Dermal</i>		
LD50	Rat	3346 mg/kg
<i>Oral</i>		
LD50	Rat	426 mg/kg
LC50		
Not available.		
Ethanol (CAS 64-17-5)		
Acute		
<i>Inhalation</i>		
LC50	Mouse	39 mg/l, 4 Hours
	Rat	31623 ppm, 4 Hours
<i>Oral</i>		
LD50	Dog	5500 mg/kg
	Guinea pig	5600 mg/kg
	Mouse	3450 mg/kg
	Rat	7060 mg/kg

Effects of acute exposure

Eye contact	Moderately irritating to the eyes.
Skin contact	Slightly irritating to the skin. 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 Components of this product have been identified as having potential environmental concerns.

Ecotoxicological data**Components**

Ethanol (CAS 64-17-5)

		Species	Test Results
Crustacea	EC50	Daphnia	11744.5 mg/L, 48 Hours
Aquatic			
Crustacea	EC50	Water flea (Daphnia magna)	7.7 - 11.2 mg/l, 48 hours
Fish	LC50	Fathead minnow (Pimephales promelas)	> 100 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

Ethanol -0.31

Chemical fate information Not available.

13. Disposal Considerations

Disposal instructions Dispose of wipe in trash after use.
Dispose in accordance with all applicable regulations.
CONTAINER DISPOSAL: Non-refillable container. Do not reuse or refill this container. Discard in trash or offer for recycling if available.

Waste from residues / unused products Not available

Contaminated packaging Not available

14. Transport Information

U.S. Department of Transportation (DOT)

Not regulated as dangerous goods.

Transportation of Dangerous Goods (TDG - Canada)

Not regulated as dangerous goods.

IATA/ICAO (Air)

Not regulated as dangerous goods.

IMDG (Marine Transport)

Not regulated as dangerous goods.

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. 777-114-675

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

Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)

Ethanol (CAS 64-17-5) Listed.

US CAA Section 111 Volatile Organic Compounds: Listed substance

Ethanol (CAS 64-17-5) Listed.

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

Not regulated.

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

Not regulated.

CERCLA (Superfund) reportable quantity

Ethanol: 100

Superfund Amendments and Reauthorization Act of 1986 (SARA)

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

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

US - California Hazardous Substances (Director's): Listed substance

Ethanol (CAS 64-17-5) Listed.

US - Illinois Chemical Safety Act: Listed substance

Ethanol (CAS 64-17-5) Listed.

US - Louisiana Spill Reporting: Listed substance

Ethanol (CAS 64-17-5) Listed.

US - Minnesota Haz Subs: Listed substance

Ethanol (CAS 64-17-5) Listed.

US - New Jersey RTK - Substances: Listed substance

Ethanol (CAS 64-17-5) Listed.

US - Texas Effects Screening Levels: Listed substance

Ethanol (CAS 64-17-5) Listed.

US. Massachusetts RTK - Substance List

Ethanol (CAS 64-17-5) Listed.

US. Pennsylvania RTK - Hazardous Substances

Ethanol (CAS 64-17-5) Listed.

US. Rhode Island RTK

Not regulated.

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® Professional Disinfecting Wipes - 8147221v1.0

Issue date

06-March-2014

Effective date

01-March-2014

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.