

1. Product and Company Identification

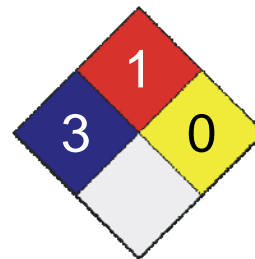
Product Name Professional LYSOL® Brand Antibacterial All Purpose Cleaner
CAS # Mixture
This MSDS is designed for workplace employees, emergency personnel and for other conditions and situations where there is a greater potential for large-scale or prolonged exposure, in accordance with requirements of 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 HMIS/NFPA	
Severe	4
Serious	3
Moderate	2
Slight	1
Minimal	0

Health	* 3
Flammability	1
Physical Hazard	0
Personal Protection	D



2. Hazards Identification

Emergency overview This product is regulated by the US EPA as a disinfectant.
 PRECAUTIONARY STATEMENTS: HAZARDS TO HUMANS AND DOMESTIC ANIMALS
 DANGER -- CORROSIVE
 Causes irreversible eye damage and skin burns. Do not get in eyes, on skin or on clothing. Harmful if swallowed or absorbed through skin. Wear protective eyewear (goggles, face shield or safety glasses). Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum or using tobacco. Remove and wash contaminated clothing before reuse.
 KEEP OUT OF REACH OF CHILDREN.

Potential short term health effects

Routes of exposure Eye, Skin contact, Inhalation, Ingestion.
Eyes Severely irritating to eyes. Risk of serious damage to eyes.
Skin Severely irritating to the skin.
Inhalation Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure.
Ingestion Harmful if swallowed.

Target organs Skin. Eyes.
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
 #23158

See section 12.

3. Composition / Information on Ingredients

Ingredient(s)	CAS #	Percent
Alcohols, C12-14-secondary, ethoxylated	84133-50-6	2.5 - 10
Alkyl (50%C14, 40%C12, 10%C16) dimethyl benzyl ammonium chlorides	68424-85-1	1 - 2.5
Sodium carbonate	497-19-8	1 - 2.5
Tetrasodium ethylenediamine tetraacetate	64-02-8	1 - 2.5
Didecyl Dimethyl Ammonium Chloride	7173-51-5	0.1 - 1
Ethanol	64-17-5	0.1 - 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: Remove 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 exposed person to fresh air. Get medical attention immediately.

Ingestion

If swallowed, call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give anything by mouth to an unconscious person.

Notes to physician

Probable mucosal damage may contraindicate the use of gastric lavage. Measures against circulatory shock, respiratory depression and convulsion may be needed.

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.

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

5. Fire Fighting Measures

Flammable properties

Not flammable by OSHA 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

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

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 to original containers for re-use.

7. Handling and Storage

Handling

Ensure adequate ventilation.
 Causes irreversible eye damage and skin burns.
 Do not get this material in your eyes, on your skin, or on your clothing.
 Do not ingest.
 Use good industrial hygiene practices in handling this material.
 Wear appropriate personal protective equipment when handling this product.
 Wash hands before breaks and immediately after handling the product.
 Remove and wash contaminated clothing before re-use.
 Do not breathe vapours or spray mist.
 Do not reuse this container.

Storage

Store in original container in areas inaccessible to small children. Keep securely closed.
 Keep containers tightly closed and upright to prevent leakage.
 Store away from incompatible materials and food and drink.
 Keep in properly labelled containers.

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

8. Exposure Controls / Personal Protection

Exposure limits**Ingredient(s)****Exposure Limits**

Alcohols, C12-14-secondary, ethoxylated

ACGIH-TLV
 Not established
OSHA-PEL
 Not established

Alkyl (50%C14, 40%C12, 10%C16) dimethyl benzyl ammonium chlorides

ACGIH-TLV
 Not established
OSHA-PEL
 Not established

Didecyl Dimethyl Ammonium Chloride

ACGIH-TLV
 Not established
OSHA-PEL
 Not established

Ethanol

ACGIH-TLV
 TWA: 1000 ppm
 STEL: 1000 ppm
OSHA-PEL
 TWA: 1000 ppm

Sodium carbonate

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	Avoid contact with eyes. Safety glasses Emergency responders should wear full eye and face protection.
Hand protection	Avoid contact with the skin. Impervious gloves. Emergency responders should wear impermeable gloves.
Skin and body protection	As required by employer code. Remove and wash contaminated clothing before re-use. Emergency responders should wear impermeable clothing and footwear when responding to a situation where contact with the liquid is possible.
Respiratory protection	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.
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	Clear
Color	Green
Form	aqueous solution
Odor	Citrus
Odor threshold	Not available
Physical state	Liquid
pH	10 - 10.5
Freezing point	Not available
Boiling point	Not available
Pour point	Not available
Evaporation rate	Not available
Flash point	> 200 °F (> 93.33 °C) Tagliabue
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	1.04 - 1.05
Octanol/water coefficient	Not available
Solubility (H2O)	Soluble

10. Stability and Reactivity

Reactivity	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	Do not mix with other products. Excessive heat. Exposure to moisture. Keep from freezing.
Incompatible materials	Acids. Oxidizers.
Hazardous decomposition products	May include and are not limited to: Oxides of nitrogen. Oxides of carbon.

11. Toxicological Information

Component analysis - LC50

Ingredient(s)	LC50
Alcohols, C12-14-secondary, ethoxylated	Not available
Alkyl (50%C14, 40%C12, 10%C16) dimethyl benzyl ammonium chlorides	Not available
Didecyl Dimethyl Ammonium Chloride	Not available
Ethanol	31623 ppm rat
Sodium carbonate	400 mg/m3 guinea pig
Tetrasodium ethylenediamine tetraacetate	Not available

Component analysis - Oral LD50

Ingredient(s)	LD50
Alcohols, C12-14-secondary, ethoxylated	3250 mg/kg rat
Alkyl (50%C14, 40%C12, 10%C16) dimethyl benzyl ammonium chlorides	426 mg/kg rat
Didecyl Dimethyl Ammonium Chloride	Not available
Ethanol	3450 mg/kg mouse; 7060 mg/kg rat
Sodium carbonate	4090 mg/kg rat
Tetrasodium ethylenediamine tetraacetate	2000 mg/kg rat

Effects of acute exposure

Eye	Severely irritating to eyes. Risk of serious damage to eyes.
Skin	Severely irritating to the skin.
Inhalation	Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure.
Ingestion	Harmful if swallowed.
Sensitization	Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals.
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

This pesticide is toxic to fish, aquatic invertebrates, oysters and shrimp.

Ecotoxicity - Freshwater Algae - Acute Toxicity Data

Sodium carbonate	497-19-8	120 Hr EC50 Nitzschia: 242 mg/L
Tetrasodium ethylenediamine tetraacetate	64-02-8	72 Hr EC50 Desmodesmus subspicatus: 1.01 mg/L

Ecotoxicity - Freshwater Fish - Acute Toxicity Data

Alcohols, C12-14-secondary, ethoxylated	84133-50-6	96 Hr LC50 Pimephales promelas: 3.2 mg/L
Ethanol	64-17-5	96 Hr LC50 Oncorhynchus mykiss: 12.0 - 16.0 mL/L [static]; 96 Hr LC50 Pimephales promelas: >100 mg/L [static]; 96 Hr LC50 Pimephales promelas: 13400 - 15100 mg/L [flow-through]
Sodium carbonate	497-19-8	96 Hr LC50 Lepomis macrochirus: 300 mg/L [static]; 96 Hr LC50 Pimephales promelas: 310 - 1220 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

Alcohols, C12-14-secondary, ethoxylated	84133-50-6	48 Hr EC50 water flea: 3.2 mg/L
Ethanol	64-17-5	48 Hr LC50 Daphnia magna: 9268 - 14221 mg/L; 24 Hr EC50 Daphnia magna: 10800 mg/L; 48 Hr EC50 Daphnia magna: 2 mg/L [Static]
Sodium carbonate	497-19-8	48 Hr EC50 Daphnia magna: 265 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

Dispose in accordance with all applicable regulations.
PESTICIDE DISPOSAL: Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture or rinsate is a violation of Federal law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency or the Hazardous Waste Representative at the nearest EPA Regional Office for guidance.
CONTAINER DISPOSAL: Non-refillable container. Do not reuse or refill this container. Offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or incineration, or if allowed by state and local authorities, by burning. If burned, stay out of smoke.

Waste from residues / unused products

Not available

Contaminated packaging

Not available

14. Transport Information

U.S. Department of Transportation (DOT)

UN1903, Disinfectants, liquid, corrosive n.o.s. (Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides, didecyldimethylammonium chloride), Class 8, PG III, Limited Quantity

Transportation of Dangerous Goods (TDG - Canada)

UN1903, DISINFECTANT, LIQUID, CORROSIVE, N.O.S. (Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides, didecyldimethylammonium chloride), Class 8, PG III, Limited Quantity

IMDG (Marine Transport)

UN1903, DISINFECTANT, LIQUID, CORROSIVE, N.O.S. (Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides, didecyldimethylammonium chloride), Class 8, PG III, Limited Quantity

IATA/ICAO (Air)

UN1903, Disinfectant, liquid, corrosive n.o.s. (Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides, didecyldimethylammonium chloride), Class 8, PG III

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. 675-36

All components of this product are either on the Toxic Substances Control Act list (TSCA) or exempt.

CERCLA (Superfund) reportable quantity

Sodium hydroxide: 1000.0000

Superfund Amendments and Reauthorization Act of 1986 (SARA)

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

Section 302 extremely hazardous substance No

Section 311 hazardous chemical Yes

Clean Air Act (CAA) Not available

Clean Water Act (CWA) Not available

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

U.S. - Massachusetts - Right To Know List

Ethanol 64-17-5 Teratogen

U.S. - Minnesota - Hazardous Substance List

Ethanol 64-17-5 Present

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

Ethanol 64-17-5 sn 0844

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

Ethanol 64-17-5 Present

U.S. - Rhode Island - Hazardous Substance List

Ethanol 64-17-5 Toxic; Flammable

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 Antibacterial All Purpose Cleaner, 128 fl oz - 355034v8.0

Issue date

15-Oct-2012

Effective date

15-Oct-2012

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.