

1. Product and Company Identification

Product Name Professional Lysol® Disinfectant Pine Action® Cleaner Concentrate - Dilutes 1:64 (2oz./gal.)

UPC CODES Refer to Section 16

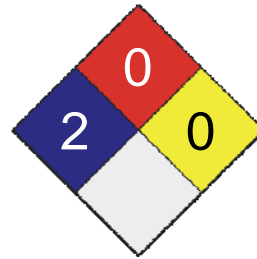
CAS # Mixture

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: 1-800-228-4722
 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	0
Physical Hazard	0
Personal Protection	A



2. Hazards Identification

Emergency overview

This product is regulated by the US EPA as a disinfectant.

PRECAUTIONARY STATEMENTS: Hazards to humans and domestic animals.

WARNING

Causes substantial but temporary eye injury. Harmful if absorbed through skin. Do not get in eyes or on clothing. Avoid contact with skin. Wear protective eyewear (goggles, face shield, safety glasses). Wash thoroughly with soap and water after handling. Remove and wash contaminated clothing before reuse.

KEEP OUT OF REACH OF CHILDREN.

Potential short term health effects

Routes of exposure

Eyes

Eye, Skin contact, Inhalation, Ingestion.

Skin

Causes eye irritation. Do not get into eyes.

Inhalation

Avoid contact with the skin.

Ingestion

None expected during normal conditions of use.

Target organs

None expected during normal conditions of use.

Chronic effects

Eyes. Skin.

Signs and symptoms

The finished product is not expected to have chronic health effects.

Symptoms may include redness, edema, drying, defatting and cracking of the skin. Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting.

3. Composition / Information on Ingredients

Ingredient(s)	CAS #	Percent
Alcohols, C12-14-secondary, ethoxylated	84133-50-6	2.5 - 10
Ethanol, 2-(2-butoxyethoxy)-	112-34-5	2.5 - 10
Ethanol, 2,2",2""-nitrilotris-	102-71-6	1 - 2.5
Pine oil	8002-09-3	1 - 2.5
Alkyl (50%C14, 40%C12, 10%C16) dimethyl benzyl ammonium chlorides	Not Applicable	0.1 - 1
Fatty acids, coco, reaction products with ethanolamine, ethoxylated	61791-08-0	0.1 - 1
Octyl Decyl Dimethyl Ammonium Chloride	Not Applicable	0.1 - 1
Didecyl Dimethyl Ammonium Chloride	Not Applicable	0 - 0.1

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	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 and drink a glass of water. If symptoms persist, call a physician.

Notes to physician

Symptoms may be delayed.

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 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.
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 in original containers for re-use.

7. Handling and Storage

Handling	<p>WARNING. CAUSES EYE IRRITATION. Avoid contact with eyes, skin and clothing. MAY BE HARMFUL IF SWALLOWED. Use good industrial hygiene practices in handling this material.</p>
Storage	<p>Do not contaminate water, food or feed by storage or disposal. 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. 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
Alcohols, C12-14-secondary, ethoxylated	<p>ACGIH-TLV Not established OSHA-PEL Not established</p>
Alkyl (50%C14, 40%C12, 10%C16) dimethyl benzyl ammonium chlorides	<p>ACGIH-TLV Not established OSHA-PEL Not established</p>
Didecyl Dimethyl Ammonium Chloride	<p>ACGIH-TLV Not established OSHA-PEL Not established</p>
Ethanol, 2-(2-butoxyethoxy)-	<p>ACGIH-TLV Not established OSHA-PEL Not established</p>
Ethanol, 2,2",2""-nitrilotris-	<p>ACGIH-TLV TWA: 5 mg/m3 OSHA-PEL Not established</p>
Fatty acids, coco, reaction products with ethanolamine, ethoxylated	<p>ACGIH-TLV Not established OSHA-PEL Not established</p>
Octyl Decyl Dimethyl Ammonium Chloride	<p>ACGIH-TLV Not established OSHA-PEL Not established</p>
Pine oil	<p>ACGIH-TLV Mist: 5 mg/m3 OSHA-PEL Not established</p>
Engineering controls	General ventilation normally adequate.
Personal protective equipment	
Eye / face protection	<p>Avoid contact with eyes. Emergency responders should wear full eye and face protection.</p>

Hand protection	Avoid contact with the skin. 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	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	Clear.
Color	Brown
Form	aqueous solution
Odor	Pine
Odor threshold	Not available
Physical state	Liquid
pH	10.5 (Basic)
Freezing point	Not available
Boiling point	Not available
Pour point	Not available
Evaporation rate	Not available
Flash point	> 199.94 °F (> 93.3 °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	1.013
Octanol/water coefficient	Not available
Solubility (H2O)	Complete

10. Stability and Reactivity

Chemical stability	Stable under recommended storage conditions.
Conditions to avoid	DO NOT MIX WITH BLEACH or use in conjunction with other household products.
Incompatible materials	Oxidizers.
Hazardous decomposition products	May include and are not limited to: Oxides of carbon. Oxides of nitrogen.
Possibility of hazardous reactions	Hazardous polymerization does not occur.

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, 2-(2-butoxyethoxy)-	Not available
Ethanol, 2,2',2'''-nitrilotris-	Not available
Fatty acids, coco, reaction products with ethanolamine, ethoxylated	Not available
Octyl Decyl Dimethyl Ammonium Chloride	Not available
Pine oil	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, 2-(2-butoxyethoxy)-	2000 mg/kg guinea pig; 3384 mg/kg rat; 2200 mg/kg rabbit
Ethanol, 2,2',2'''-nitrilotris-	4190 mg/kg rat; 5300 mg/kg guinea pig; 5200 mg/kg mouse
Fatty acids, coco, reaction products with ethanolamine, ethoxylated	Not available
Octyl Decyl Dimethyl Ammonium Chloride	Not available
Pine oil	3200 mg/kg rat

Effects of acute exposure

Eye Causes eye irritation. Do not get into eyes.

Skin Avoid contact with the skin.

Inhalation None expected during normal conditions of use.

Ingestion None expected during normal conditions of 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.

IARC - Group 3 (Not Classifiable)

Ethanol, 2,2',2'''-nitrilotris- 102-71-6 Monograph 77 [2000]

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.

Synergistic Materials Not available

12. Ecological Information

Ecotoxicity	See below	
Ecotoxicity - Freshwater Algae Data		
Ethanol, 2-(2-butoxyethoxy)-	112-34-5	96 Hr EC50 Desmodesmus subspicatus: >100 mg/L
Ethanol, 2,2",2""-nitritoltris-	102-71-6	72 Hr EC50 Desmodesmus subspicatus: 216 mg/L; 96 Hr EC50 Desmodesmus subspicatus: 169 mg/L
Ecotoxicity - Freshwater Fish Species Data		
Alcohols, C12-14-secondary, ethoxylated	84133-50-6	96 Hr LC50 Pimephales promelas: 3.2 mg/L
Ethanol, 2-(2-butoxyethoxy)-	112-34-5	96 Hr LC50 Lepomis macrochirus: 1300 mg/L [static]
Ethanol, 2,2",2""-nitritoltris-	102-71-6	96 Hr LC50 Pimephales promelas: 10600-13000 mg/L [flow-through]; 96 Hr LC50 Pimephales promelas: >1000 mg/L [static]; 96 Hr LC50 Lepomis macrochirus: 450-1000 mg/L [static]
Ecotoxicity - Water Flea Data		
Alcohols, C12-14-secondary, ethoxylated	84133-50-6	48 Hr EC50 water flea: 3.2 mg/L
Ethanol, 2-(2-butoxyethoxy)-	112-34-5	24 Hr EC50 Daphnia magna: 2850 mg/L; 48 Hr EC50 Daphnia magna: >100 mg/L
Ethanol, 2,2",2""-nitritoltris-	102-71-6	24 Hr EC50 Daphnia magna: 1386 mg/L
Pine oil	8002-09-3	48 Hr EC50 Daphnia magna: 17 - 28 mg/L [Flow through]
Environmental effects	Not available	
Aquatic toxicity	Not available	
Persistence / degradability	Not available	
Bioaccumulation / accumulation	Not available	
Partition coefficient	Not available	
Mobility in environmental media	Not available	
Chemical fate information	Not available	

13. Disposal Considerations

Waste codes	Not available
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. Triple rinse as follows: Fill container 1/4 full with water and recap. Shake for 10 seconds. Follow Pesticide Disposal instructions for rinsate disposal. Drain for 10 seconds after the flow begins to drip. Repeat procedure 2 more times. Then offer for recycling or reconditioning. If not available, puncture and dispose in a sanitary landfill.
Waste from residues / unused products	Not available
Contaminated packaging	Not available

14. Transport Information

UN/ID N.o. Not applicable

U.S. Department of Transportation (DOT): Classification: Not regulated

Proper shipping name Not applicable

U.S. DOT Hazard Class Not applicable

Subsidiary Risk Not applicable

Packing group Not applicable

DOT RQ (lbs) Not applicable
ERG NO Not applicable

Transportation of Dangerous Goods (TDG - Canada): Classification: Not regulated

Proper shipping name Not applicable

Status Not applicable

Packing group Not applicable

IMDG (Marine Transport): Classification: Not regulated

Proper shipping name Not applicable

Class Not applicable

Subsidiary Risk Not applicable

Packing group Not applicable

IMDG Page Not applicable

Marine pollutant Not applicable

EMS Not applicable

MFAG Not applicable

Maximum Quantity Not applicable

IATA/ICAO (Air): Classification: Not regulated
Proper shipping name Not applicable
Class Not applicable
Subsidiary Risk: Not applicable
Packing group Not applicable
Maximum Quantity Not applicable

15. Regulatory Information

US Federal regulations This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.
 CERCLA/SARA Hazardous Substances - Not applicable.

Product Registration: Registered with EPA, EPA Reg. No. 777-82-675

Occupational Safety and Health Administration (OSHA)

29 CFR 1910.1200 hazardous chemical Yes

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories Immediate Hazard - Yes
 Delayed Hazard - No
 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 does not contain a chemical known to the State of California to cause cancer, birth defects or other reproductive harm.

U.S. - Massachusetts - Right To Know List

Ethanol, 2,2",2""-nitrolotris- 102-71-6 Present

U.S. - Minnesota - Hazardous Substance List

Ethanol, 2,2",2""-nitrolotris- 102-71-6 Present

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

Ethanol, 2,2",2""-nitrolotris- 102-71-6 sn 4094

Pine oil 8002-09-3 sn 2684

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

Ethanol, 2,2",2""-nitrolotris- 102-71-6 Present

U.S. - Rhode Island - Hazardous Substance List

Ethanol, 2,2",2""-nitrolotris- 102-71-6 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	36241-02814-5 - Professional Lysol® Disinfectant Pine Action® Cleaner Concentrate - Dilutes 1:64 (2oz./gal.) - 1 gal. - 369958
Issue date	09-Jul-2010
Effective date	30-Jun-2010
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.