

1. Product and Company Identification

Product Name LYSOL® IC™ - Quaternary Disinfectant Cleaner Concentrate - Use dilution 1:256 (1/2oz./gal.)

UPC CODES Refer to Section 16

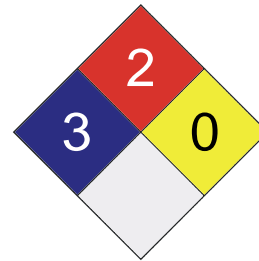
CAS # Mixture

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	/ 3
Flammability	2
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. HARMFUL IF SWALLOWED. Do not get in eyes, on skin or on clothing. Wear protective eyewear (goggles, face shield or safety glasses), protective clothing and protective gloves (rubber or chemical resistant). HARMFUL IF INHALED. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash before reuse.

KEEP OUT OF REACH OF CHILDREN.

Potential short term health effects

Routes of exposure

Eyes

Skin

Inhalation

Ingestion

Target organs

Chronic effects

Signs and symptoms

Eye, Skin contact, Inhalation, Ingestion.

Corrosive to eyes. Causes irreversible eye damage.

Corrosive to skin. Causes burns. Avoid skin contact.
 Not expected to be a skin sensitizer.

Use only in a well ventilated area.

Harmful if swallowed.

Eyes. Skin. Respiratory system.

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

Symptoms may include headache, dizziness, tiredness, nausea and vomiting.

3. Composition / Information on Ingredients

Ingredient(s)	CAS #	Percent
Didecyl Dimethyl Ammonium Chloride	Not Applicable	7 - 13
Ethylenediamine tetraacetic acid	60-00-4	2.5 - 10
N-Alkyl (C14 50%, C12 40%, C16 10%) dimethyl benzyl ammonium chloride	Not Applicable	2.5 - 10
Octyl dimethylamine oxide	2605-78-9	2.5 - 10
Ethanol	64-17-5	1 - 2.5
Sodium hydroxide	1310-73-2	1 - 2.5

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.
Skin contact	If on skin or clothing: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes.
Inhalation	Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. Call a poison control center or doctor for further treatment advice.
Ingestion	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. Appropriate treatment to help protect the affected person 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	Combustible by OSHA criteria.
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 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. Ammonia. Hydrogen chloride.
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

DANGER
Corrosive material.
Causes irreversible eye and skin burns.
HARMFUL IF SWALLOWED.
HARMFUL IF INHALED.
Do not get in eyes, on skin or on clothing.
Do not get this material in your eyes, on your skin, or on your clothing.
Use according to package label instructions.

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.

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**

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

Ethylenediamine tetraacetic acid

ACGIH-TLV
Not established
OSHA-PEL
Not established

N-Alkyl (C14 50%, C12 40%, C16 10%) dimethyl benzyl ammonium chloride

ACGIH-TLV
Not established
OSHA-PEL
Not established

Octyl dimethylamine oxide

ACGIH-TLV
Not established
OSHA-PEL
Not established

Sodium hydroxide

ACGIH-TLV
Ceiling: 2 mg/m³
OSHA-PEL
TWA: 2 mg/m³

Engineering controls

General ventilation normally adequate.

Personal protective equipment**Eye / face protection**

Avoid contact with eyes. Wear chemical goggles.
Emergency responders should wear full eye and face protection.

Hand protection

Avoid contact with the skin. Wash hands after use.
Protective gloves.
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	Use good industrial hygiene practices in handling this material. 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	Amber
Form	aqueous solution
Odor	Mild Characteristic
Odor threshold	Not available
Physical state	Liquid
pH	7.2 - 8.2 @ 25°C
Freezing point	Not available
Boiling point	Not available
Pour point	Not available
Evaporation rate	Not available
Flash point	159.99 °F (71.111 °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	0.99 - 1.01 @ 25°C
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. Excessive heat.
Incompatible materials	Caustics. Acids. Oxidizers.
Hazardous decomposition products	May include and are not limited to: Oxides of carbon. Oxides of nitrogen. Ammonia. Hydrogen chloride.
Possibility of hazardous reactions	Hazardous polymerization does not occur.

11. Toxicological Information

Component analysis - LC50

Ingredient(s)	LC50
Didecyl Dimethyl Ammonium Chloride	Not available
Ethanol	31623 ppm rat
Ethylenediamine tetraacetic acid	Not available
N-Alkyl (C14 50%, C12 40%, C16 10%) dimethyl benzyl ammonium chloride	Not available
Octyl dimethylamine oxide	Not available
Sodium hydroxide	Not available

Component analysis - Oral LD50

Ingredient(s)	LD50
Didecyl Dimethyl Ammonium Chloride	Not available
Ethanol	3450 mg/kg mouse; 7060 mg/kg rat
Ethylenediamine tetraacetic acid	> 2000 mg/kg rat
N-Alkyl (C14 50%, C12 40%, C16 10%) dimethyl benzyl ammonium chloride	Not available
Octyl dimethylamine oxide	Not available
Sodium hydroxide	Not available

Effects of acute exposure

Eye	Corrosive to eyes. Causes irreversible eye damage.
Skin	Corrosive to skin. Causes burns. Avoid skin contact. Not expected to be a skin sensitizer.
Inhalation	Use only in a well ventilated area.
Ingestion	Harmful if swallowed.
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.
ACGIH - Threshold Limit Values - Carcinogens	
Ethanol	64-17-5 A3 - Confirmed Animal Carcinogen with Unknown Relevance to Humans
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	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.
Ecotoxicity - Freshwater Algae Data	
Ethylenediamine tetraacetic acid 60-00-4	72 Hr EC50 Desmodesmus subspicatus: 1.01 mg/L
Ecotoxicity - Freshwater Fish Species Data	
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]
Ethylenediamine tetraacetic acid 60-00-4	96 Hr LC50 Lepomis macrochirus: 34-62 mg/L [static]; 96 Hr LC50 Pimephales promelas: 44.2-76.5 mg/L [static]
Sodium hydroxide 1310-73-2	96 Hr LC50 Oncorhynchus mykiss: 45.4 mg/L [static]
Ecotoxicity - Water Flea Data	
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]
Ethylenediamine tetraacetic acid 60-00-4	48 Hr EC50 Daphnia magna: 113 mg/L [Static]
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
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Disposal instructions

Dispose in accordance with all applicable regulations.

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)

UN 1903, Disinfectant, Liquid, Corrosive, N.O.S.
(Didecyl Dimethyl Ammonium Chloride, Alkyl Dimethyl Benzyl Ammonium Chloride), Class 8, PG III, Limited Quantity Re-Classed as Consumer Commodity ORM-D.

Transportation of Dangerous Goods (TDG - Canada)

UN 1903, Disinfectant, Liquid, Corrosive, N.O.S.
(Didecyl Dimethyl Ammonium Chloride, Alkyl Dimethyl Benzyl Ammonium Chloride), Class 8, PG III, Limited Quantity Re-Classed as Consumer Commodity / Limited Quantity

IMDG (Marine Transport)

UN 1903, Disinfectant, Liquid, Corrosive, N.O.S.
(Didecyl Dimethyl Ammonium Chloride, Alkyl Dimethyl Benzyl Ammonium Chloride), Class 8, PG III, Limited Quantity

UN 1903, Disinfectant, Liquid, Corrosive, N.O.S.
(Didecyl Dimethyl Ammonium Chloride, Alkyl Dimethyl Benzyl Ammonium Chloride), Class 8, PG III

15. Regulatory Information

US Federal regulations

This product is not known to be 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. 47371-129-675

U.S. - CERCLA/SARA - Hazardous Substances and their Reportable Quantities

Ethylenediamine tetraacetic acid	60-00-4	5000 Lb final RQ; 2270 kg final RQ
Sodium hydroxide	1310-73-2	1000 Lb final RQ; 454 kg final RQ

U.S. - CWA (Clean Water Act) - Hazardous Substances

Ethylenediamine tetraacetic acid	60-00-4	Present
Sodium hydroxide	1310-73-2	Present

Occupational Safety and Health Administration (OSHA)

29 CFR 1910.1200 hazardous chemical Yes

CERCLA (Superfund) reportable quantity

Ethylenediamine tetraacetic acid: 5000.0000
Sodium hydroxide: 1000.0000

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories Immediate Hazard - Yes
Delayed Hazard - No
Fire Hazard - Yes
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. - California - 8 CCR Section 339 - Director's List of Hazardous Substances

Ethylenediamine tetraacetic acid	60-00-4	Present
Sodium hydroxide	1310-73-2	Present

U.S. - Louisiana - Reportable Quantity List for Pollutants

Ethylenediamine tetraacetic acid	60-00-4	5000 Lb final RQ; 2270 kg final RQ
Sodium hydroxide	1310-73-2	1000 Lb final RQ; 454 kg final RQ

U.S. - Massachusetts - Right To Know List

Ethanol	64-17-5	Teratogen
Ethylenediamine tetraacetic acid	60-00-4	Present
Sodium hydroxide	1310-73-2	Present

U.S. - Minnesota - Hazardous Substance List

Ethanol	64-17-5	Present
Sodium hydroxide	1310-73-2	Present

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

Ethanol	64-17-5	sn 0844
Ethylenediamine tetraacetic acid	60-00-4	sn 0876
Sodium hydroxide	1310-73-2	sn 1706

U.S. - New York - Reporting of Releases Part 597 - List of Hazardous Substances

Ethylenediamine tetraacetic acid	60-00-4	5000 Lb RQ (air); 1 lb RQ (land/water)
Sodium hydroxide	1310-73-2	1000 Lb RQ (air); 100 lb RQ (land/water)

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

Ethanol	64-17-5	Present
Ethylenediamine tetraacetic acid	60-00-4	Environmental hazard
Sodium hydroxide	1310-73-2	Environmental hazard

U.S. - Rhode Island - Hazardous Substance List

Ethanol	64-17-5	Toxic; Flammable
Sodium hydroxide	1310-73-2	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

36241-74983-5 - LYSOL® IC™ Quaternary Disinfectant Cleaner Concentrate - Use dilution 1:256 (1/2 oz./gal.) - 1 gal. - 366519

Issue date

08-Jul-2010

Effective date

01-Jul-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.