

1. Product and Company Identification

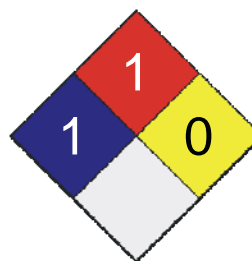
Product Name LYSOL® IC™ Brand II Ready To Use Disinfectant Cleaner
CAS # Mixture
**This MSDS is designed for workplace employees, emergency personnel and for other conditions and situations where there is a greater potential for large-scale or prolonged exposure, in accordance with requirements of the 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 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 | * 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
 KEEP OUT OF REACH OF CHILDREN.
 Causes moderate eye irritation. Avoid contact with eyes or clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum or using tobacco.

Potential short term health effects

Routes of exposure Eye, Skin contact, Inhalation, Ingestion.

Eyes Moderately irritating to the eyes.

Skin May cause skin irritation.

Inhalation Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure.

Ingestion Ingestion of large amounts may produce gastrointestinal disturbances including irritation, nausea, and diarrhea.

Target organs Eyes. 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. 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 |
|---|----------------|----------|
| Ethanol, 2-(2-butoxyethoxy)- | 112-34-5 | 2.5 - 10 |
| Tetrasodium ethylenediamine tetraacetate | 64-02-8 | 1 - 2.5 |
| N-Alkyl (60% C14, 30% C16, 5% C12, 5% C18) dimethyl benzyl ammonium chlorides | Not Applicable | 0.1 - 1 |
| N-Alkyl (68% C12, 32% C14) dimethyl ethylbenzyl 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 | Get medical attention immediately. In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. |
| 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 for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by the Poison Control Center or doctor. Do not give anything by mouth to an unconscious person. |

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

Notes to physician

Treat patient symptomatically.

Probable mucosal damage may contraindicate the use of gastric lavage.

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.

5. Fire Fighting Measures

| | |
|---|---|
| Flammable properties | Not flammable 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. Some metallic oxides. |
| 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.
 Use good industrial hygiene practices in handling this material.
 When using do not eat or drink. Avoid contact with skin and clothing.
 Avoid contact with eyes.
 Do not ingest.
 Keep container tightly closed.
 Avoid breathing vapors or mists of this product.
 Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum or using tobacco.

Storage

Store in original container, protected from direct sunlight, in a dry, cool, well ventilated area, and away from food and drink.
 Do not contaminate water, food or feed by storage or disposal.
 Store in a dry place no lower in temperature than 50°F or higher than 120°F.
 Use appropriate container to avoid environmental contamination.
 Keep out of reach of children.

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**

Ethanol, 2-(2-butoxyethoxy)-

ACGIH-TLV

Not established

OSHA-PEL

Not established

N-Alkyl (60% C14, 30% C16, 5% C12, 5% C18) dimethyl benzyl ammonium chlorides

ACGIH-TLV

Not established

OSHA-PEL

Not established

N-Alkyl (68% C12, 32% C14) dimethyl ethylbenzyl ammonium chlorides

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

Wear safety glasses with side shields. Emergency responders should wear full eye and face protection.

Hand protection

Rubber gloves. Confirm with a reputable supplier first.
 Emergency responders should wear impermeable gloves.

| | |
|---------------------------------------|--|
| Skin and body protection | Usual safety precautions while handling the product will provide adequate protection against injury or irritation. 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. Wash hands before breaks and immediately after handling the product. |

9. Physical and Chemical Properties

| | |
|---|-----------------------|
| Appearance | Clear |
| Color | Colorless |
| Form | Fluid |
| Odor | Citrus |
| Odor threshold | Not available |
| Physical state | Liquid |
| pH | 11.7 |
| Freezing point | Not available |
| Boiling point | Not available |
| Pour point | Not available |
| Evaporation rate | Not available |
| Flash point | > 201 °F (> 93.88 °C) |
| 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 | 0.9994 |
| Octanol/water coefficient | Not available |
| Solubility (H2O) | Complete |
| Bulk density | 8.38 lbs/gal |

10. Stability and Reactivity

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|---|--|
| 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 other chemicals. Keep away from extreme heat. Exposure to moisture. Keep from freezing. |
| Incompatible materials | Acids. Oxidizers. |
| Hazardous decomposition products | May include and are not limited to: Oxides of carbon. Oxides of nitrogen. Some metallic oxides. |

11. Toxicological Information

Component analysis - LC50

| Ingredient(s) | LC50 |
|---|---------------|
| Ethanol, 2-(2-butoxyethoxy)- | Not available |
| N-Alkyl (60% C14, 30% C16, 5% C12, 5% C18) dimethyl benzyl ammonium chlorides | Not available |
| N-Alkyl (68% C12, 32% C14) dimethyl ethylbenzyl ammonium chlorides | Not available |
| Tetrasodium ethylenediamine tetraacetate | Not available |

Component analysis - Oral LD50

| Ingredient(s) | LD50 |
|---|--|
| Ethanol, 2-(2-butoxyethoxy)- | 2000 mg/kg guinea pig; 3384 mg/kg rat; 2200 mg/kg rabbit |
| N-Alkyl (60% C14, 30% C16, 5% C12, 5% C18) dimethyl benzyl ammonium chlorides | Not available |
| N-Alkyl (68% C12, 32% C14) dimethyl ethylbenzyl ammonium chlorides | Not available |
| Tetrasodium ethylenediamine tetraacetate | 2000 mg/kg rat |

Effects of acute exposure

| | |
|-------------------|--|
| Eye | Moderately irritating to the eyes. |
| Skin | May cause skin irritation. |
| Inhalation | Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure. |
| Ingestion | Ingestion of large amounts may produce gastrointestinal disturbances including irritation, nausea, and diarrhea. |

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

| | | |
|--|----------|---|
| Ethanol, 2-(2-butoxyethoxy)- | 112-34-5 | 96 Hr EC50 <i>Desmodesmus subspicatus</i> : >100 mg/L |
| Tetrasodium ethylenediamine tetraacetate | 64-02-8 | 72 Hr EC50 <i>Desmodesmus subspicatus</i> : 1.01 mg/L |

Ecotoxicity - Freshwater Fish - Acute Toxicity Data

| | | |
|--|----------|--|
| Ethanol, 2-(2-butoxyethoxy)- | 112-34-5 | 96 Hr LC50 <i>Lepomis macrochirus</i> : 1300 mg/L [static] |
| Tetrasodium ethylenediamine tetraacetate | 64-02-8 | 96 Hr LC50 <i>Lepomis macrochirus</i> : 41 mg/L [static]; 96 Hr LC50 <i>Pimephales promelas</i> : 59.8 mg/L [static] |

Ecotoxicity - Water Flea - Acute Toxicity Data

| | | |
|--|----------|--|
| Ethanol, 2-(2-butoxyethoxy)- | 112-34-5 | 24 Hr EC50 <i>Daphnia magna</i> : 2850 mg/L; 48 Hr EC50 <i>Daphnia magna</i> : >100 mg/L |
| Tetrasodium ethylenediamine tetraacetate | 64-02-8 | 24 Hr EC50 <i>Daphnia magna</i> : 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

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|--|---|
| Disposal instructions | Dispose in accordance with all applicable regulations. Do not contaminate water, food or feed by storage or disposal. 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. Clean container promptly after emptying. Triple rinse as follows: Fill container 1/4 full with water and recap. Agitate vigorously. 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

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. 1839-83-675

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 - 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.

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

LYSOL® IC™ Brand II Ready To Use Disinfectant Cleaner, 32 fl oz - 0346106v1.0

Issue date

10-Sep-2012

Effective date

01-Sep-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.

This MSDS conforms to the ANSI Z400.1/Z129.1-2010 Standard.