

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

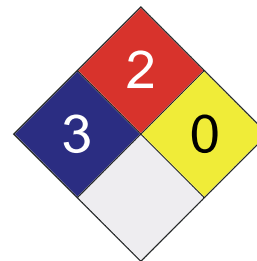
CAS # Mixture

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<br>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

Eye, Skin contact, Inhalation, Ingestion.

Eyes

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.

Target organs

Eyes. Skin. Respiratory system.

Chronic effects

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

Signs and symptoms

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

OfficeWorld.com does not independently verify, and accordingly does not warrant, the accuracy of any information contained in this MSDS.



### 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

|                     |                                                                                                                                                                                                                                                                         |
|---------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Eye contact</b>  | 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.                                                                                                        |
| <b>Skin contact</b> | If on skin or clothing: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes.                                                                                                                                                  |
| <b>Inhalation</b>   | 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.                                           |
| <b>Ingestion</b>    | 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

|                                                   |                                                                                                       |
|---------------------------------------------------|-------------------------------------------------------------------------------------------------------|
| <b>Flammable properties</b>                       | Combustible by OSHA criteria.                                                                         |
| <b>Extinguishing media</b>                        |                                                                                                       |
| <b>Suitable extinguishing media</b>               | Treat for surrounding material.                                                                       |
| <b>Unsuitable extinguishing media</b>             | Not available                                                                                         |
| <b>Protection of firefighters</b>                 |                                                                                                       |
| <b>Specific hazards arising from the chemical</b> | Not available                                                                                         |
| <b>Protective equipment for firefighters</b>      | Firefighters should wear full protective clothing including self contained breathing apparatus.       |
| <b>Hazardous combustion products</b>              | May include and are not limited to: Oxides of carbon. Oxides of nitrogen. Ammonia. Hydrogen chloride. |
| <b>Explosion data</b>                             |                                                                                                       |
| <b>Sensitivity to mechanical impact</b>           | Not available                                                                                         |
| <b>Sensitivity to static discharge</b>            | Not available                                                                                         |

### 6. Accidental Release Measures

|                                |                                                                                                                                                                                                                                     |
|--------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Personal precautions</b>    | 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. |
| <b>Methods for containment</b> | 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.

|                                       |                                                                                                                                                                                                                                                                     |
|---------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Skin and body protection</b>       | As required by employer code.<br>Emergency responders should wear impermeable clothing and footwear when responding to a situation where contact with the liquid is possible.                                                                                       |
| <b>Respiratory protection</b>         | 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. |
| <b>General hygiene considerations</b> | 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

|                                                       |                                 |
|-------------------------------------------------------|---------------------------------|
| <b>Appearance</b>                                     | Clear.                          |
| <b>Color</b>                                          | Amber                           |
| <b>Form</b>                                           | aqueous solution                |
| <b>Odor</b>                                           | Mild Characteristic             |
| <b>Odor threshold</b>                                 | Not available                   |
| <b>Physical state</b>                                 | Liquid                          |
| <b>pH</b>                                             | 7.2 - 8.2 @ 25°C                |
| <b>Freezing point</b>                                 | Not available                   |
| <b>Boiling point</b>                                  | Not available                   |
| <b>Pour point</b>                                     | Not available                   |
| <b>Evaporation rate</b>                               | Not available                   |
| <b>Flash point</b>                                    | 159.99 °F (71.111 °C) Tagliabue |
| <b>Auto-ignition temperature</b>                      | Not available                   |
| <b>Flammability limits in air, lower, % by volume</b> | Not available                   |
| <b>Flammability limits in air, upper, % by volume</b> | Not available                   |
| <b>Vapor pressure</b>                                 | Not available                   |
| <b>Vapor density</b>                                  | Not available                   |
| <b>Specific gravity</b>                               | 0.99 - 1.01 @ 25°C              |
| <b>Octanol/water coefficient</b>                      | Not available                   |
| <b>Solubility (H2O)</b>                               | Complete                        |

## 10. Stability and Reactivity

|                                           |                                                                                                       |
|-------------------------------------------|-------------------------------------------------------------------------------------------------------|
| <b>Chemical stability</b>                 | Stable under recommended storage conditions.                                                          |
| <b>Conditions to avoid</b>                | DO NOT MIX WITH BLEACH or use in conjunction with other household products. Excessive heat.           |
| <b>Incompatible materials</b>             | Caustics. Acids. Oxidizers.                                                                           |
| <b>Hazardous decomposition products</b>   | May include and are not limited to: Oxides of carbon. Oxides of nitrogen. Ammonia. Hydrogen chloride. |
| <b>Possibility of hazardous reactions</b> | 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

|                                                     |                                                                                               |
|-----------------------------------------------------|-----------------------------------------------------------------------------------------------|
| <b>Eye</b>                                          | Corrosive to eyes. Causes irreversible eye damage.                                            |
| <b>Skin</b>                                         | Corrosive to skin. Causes burns. Avoid skin contact.<br>Not expected to be a skin sensitizer. |
| <b>Inhalation</b>                                   | Use only in a well ventilated area.                                                           |
| <b>Ingestion</b>                                    | Harmful if swallowed.                                                                         |
| <b>Sensitization</b>                                | The finished product is not expected to have chronic health effects.                          |
| <b>Chronic effects</b>                              | The finished product is not expected to have chronic health effects.                          |
| <b>Carcinogenicity</b>                              | The finished product is not expected to have chronic health effects.                          |
| <b>ACGIH - Threshold Limit Values - Carcinogens</b> |                                                                                               |
| Ethanol                                             | 64-17-5 A3 - Confirmed Animal Carcinogen with Unknown Relevance to Humans                     |

|                              |                                                                      |
|------------------------------|----------------------------------------------------------------------|
| <b>Mutagenicity</b>          | The finished product is not expected to have chronic health effects. |
| <b>Reproductive effects</b>  | The finished product is not expected to have chronic health effects. |
| <b>Teratogenicity</b>        | The finished product is not expected to have chronic health effects. |
| <b>Synergistic Materials</b> | Not available                                                        |

## 12. Ecological Information

|                                                   |                                                                                                                                                                                                                              |
|---------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Ecotoxicity</b>                                | 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. |
| <b>Ecotoxicity - Freshwater Algae Data</b>        |                                                                                                                                                                                                                              |
| Ethylenediamine tetraacetic acid 60-00-4          | 72 Hr EC50 Desmodesmus subspicatus: 1.01 mg/L                                                                                                                                                                                |
| <b>Ecotoxicity - Freshwater Fish Species Data</b> |                                                                                                                                                                                                                              |
| 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]                                                                                                                                                                           |
| <b>Ecotoxicity - Water Flea Data</b>              |                                                                                                                                                                                                                              |
| 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]                                                                                                                                                                                  |
| <b>Environmental effects</b>                      | Not available                                                                                                                                                                                                                |
| <b>Aquatic toxicity</b>                           | Not available                                                                                                                                                                                                                |
| <b>Persistence / degradability</b>                | Not available                                                                                                                                                                                                                |
| <b>Bioaccumulation / accumulation</b>             | Not available                                                                                                                                                                                                                |
| <b>Partition coefficient</b>                      | Not available                                                                                                                                                                                                                |
| <b>Mobility in environmental media</b>            | Not available                                                                                                                                                                                                                |
| <b>Chemical fate information</b>                  | Not available                                                                                                                                                                                                                |

## 13. Disposal Considerations

|                    |               |
|--------------------|---------------|
| <b>Waste codes</b> | Not available |
|--------------------|---------------|

**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

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## 14. Transport Information

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**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

OfficeWorld.com does not independently verify, and accordingly does not warrant, the accuracy of any information contained in this MSDS.



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

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## 15. Regulatory Information

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### 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

OfficeWorld.com does not independently verify, and accordingly does not warrant, the accuracy of any information contained in this MSDS.



**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)

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## 16. Other Information

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**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.

