

## 1. Product and Company Identification

**Product Name** LYSOL® Brand (Kills 99.9% of Viruses & Bacteria) Deep Reach® Toilet Bowl Cleaner Complete Clean

**CAS #** Mixture

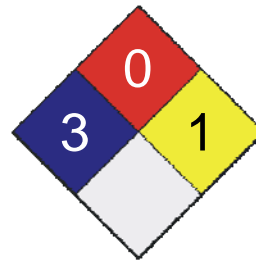
**This MSDS is designed for workplace employees, emergency personnel and for other conditions and situations where there is a greater potential for large-scale or prolonged exposure, in accordance with requirements of the Canadian Workplace Hazardous Materials Information System (WHMIS). This MSDS is 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** Toilet bowl cleaner

**Distributed by** Reckitt Benckiser (Canada) Inc.  
 1680 Tech Avenue Unit #2  
 Mississauga, ON L4W 5S9  
 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	0
Physical Hazard	1
Personal Protection	D



## 2. Hazards Identification

**Emergency Overview** DANGER  
 CORROSIVE TO EYES AND SKIN  
 HARMFUL OR FATAL IF SWALLOWED.  
 Avoid contact with eyes, skin or clothing.  
 DO NOT breathe vapour.  
 DO NOT mix with bleach or other chlorinating compounds.  
 This product should not be used or placed on toilet lids, vanities, sinks, bathtubs, cabinets, countertops, rugs, floors, etc.

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**

**Potential environmental effects**

Eye, Skin contact, Inhalation, Ingestion.

Corrosive to the eyes and may cause severe damage including blindness.

Corrosive to skin.

Not expected to be a skin sensitizer.

Do not breathe vapours or fumes from the drain.

Harmful or fatal if swallowed.

Eyes. Respiratory system. Skin.

Prolonged or repeated exposure to dilutions can cause drying, defatting and dermatitis.

The product causes burns of eyes, skin and mucous membranes.

See section 12.

### 3. Composition/Information on Ingredients

Ingredient(s)	CAS #	Percent
Methyl salicylate	119-36-8	0.1 - 1
Ethoxylated aliphatic amines	61791-26-2	1 - 5
Alcohols, C12-16, ethoxylated	68551-12-2	1 - 5
Hydrochloric acid	7647-01-0	7 - 13

### 4. First Aid Measures

#### First aid procedures

<b>Eye contact</b>	If splashed in eyes, immediately flush eyes thoroughly with water. Remove any contact lenses and continue to flush eyes with water for 15 minutes. Get medical attention immediately.
<b>Skin contact</b>	If splashed on skin, immediately flush with soap and water. Get medical attention if irritation persists.
<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>	If swallowed, give three to four glasses of water. Do not induce vomiting. Call physician or Poison Control Centre IMMEDIATELY.

**Notes to physician** If the product is ingested, probable mucosal damage may contraindicate the use of gastric lavage. Treat the affected person appropriately. 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.

### 5. Fire-fighting Measures

<b>Flammable properties</b>	Not flammable by WHMIS criteria.
<b>Extinguishing media</b>	
<b>Suitable extinguishing media</b>	Dry chemical. Water spray. Foam.
<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: Hydrogen chloride. Oxides of carbon. Oxides of nitrogen.
<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>Environmental precautions</b>	Do not discharge into lakes, streams, ponds or public waters. Advise authorities if product has penetrated drains, sewers or water pipes.
<b>Methods for containment</b>	Stop leak if you can do so without risk. Prevent entry into waterways, sewers, basements or confined areas.
<b>Methods for cleaning up</b>	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. Large Spills: Wet down with water and dike for later disposal. After removal flush contaminated area thoroughly with water.

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## 7. Handling and Storage

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<b>Handling</b>	Ensure adequate ventilation. Avoid contact with eyes, skin or clothing. DO NOT breathe vapour. Do not ingest. Use good industrial hygiene practices in handling this material. Wash thoroughly with soap and water after handling. Read and follow product label instructions.
<b>Storage</b>	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 offer for recycling where facilities exist. Keep out of reach of children.

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## 8. Exposure Controls / Personal Protection

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### Exposure limit values

Ingredient(s)	Exposure limit values
Alcohols, C12-16, ethoxylated	<b>ACGIH-TLV</b> Not established
Ethoxylated aliphatic amines	<b>ACGIH-TLV</b> Not established
Hydrochloric acid	<b>ACGIH-TLV</b> Ceiling: 2 ppm
Methyl salicylate	<b>ACGIH-TLV</b> Not established

### 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 chemical goggles.  
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. Follow label directions carefully.  
In case of continuous exposure or occupational operations, wear protective clothing designed and appropriate for acid chemical exposure.  
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.  
Avoid contact with skin, eyes and clothing.

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## 9. Physical and Chemical Properties

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<b>Appearance</b>	Clear
<b>Colour</b>	Blue
<b>Form</b>	Liquid
<b>Odour</b>	Wintergreen
<b>Odour threshold</b>	Not available
<b>Physical state</b>	Liquid

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<b>pH</b>	< 1 (Acidic)
<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>	> 93.33 °C (> 200 °F) 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>Vapour pressure</b>	Not available
<b>Vapour density</b>	Not available
<b>Specific gravity</b>	1.040 - 1.050
<b>Octanol/water coefficient</b>	Not available
<b>Solubility (H2O)</b>	Complete
<b>Viscosity</b>	Viscous

## 10. Stability and Reactivity

<b>Reactivity</b>	This product may react with strong oxidizing agents.
<b>Possibility of hazardous reactions</b>	Hazardous polymerisation does not occur.
<b>Chemical stability</b>	Stable under recommended storage conditions.
<b>Conditions to avoid</b>	Do not mix with other chemicals. Reacts violently with alkaline material. This product may react with reducing agents. Fumes are corrosive to metal. Excessive heat and moisture. DO NOT MIX WITH BLEACH or use in conjunction with other household products.
<b>Incompatible materials</b>	Bases. Reducing agents.
<b>Hazardous decomposition products</b>	May include and are not limited to: Hydrogen chloride. Oxides of nitrogen. Oxides of carbon.

## 11. Toxicological Information

### Component analysis - LC50

Ingredient(s)	LC50
Alcohols, C12-16, ethoxylated	Not available
Ethoxylated aliphatic amines	Not available
Hydrochloric acid	554 ppm mouse
Methyl salicylate	Not available

### Component analysis - Oral LD50

Ingredient(s)	LD50
Alcohols, C12-16, ethoxylated	1380 mg/kg rat
Ethoxylated aliphatic amines	620 mg/kg rat
Hydrochloric acid	900 mg/kg rabbit; 700 mg/kg rat
Methyl salicylate	887 mg/kg rat; 1110 mg/kg mouse; 2100 mg/kg dog; 1300 mg/kg rabbit; 700 mg/kg guinea pig

### Effects of acute exposure

<b>Eye</b>	Corrosive to the eyes and may cause severe damage including blindness.
<b>Skin</b>	Corrosive to skin. Not expected to be a skin sensitizer.
<b>Inhalation</b>	Do not breathe vapours or fumes from the drain.
<b>Ingestion</b>	Harmful or fatal if swallowed.
<b>Sensitisation</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>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>Name of Toxicologically Synergistic Products</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 Fish - Acute Toxicity Data</b>	
Hydrochloric acid	7647-01-0      96 Hr LC50 Gambusia affinis: 282 mg/L [static]
<b>Ecotoxicity - Water Flea - Acute Toxicity Data</b>	
Methyl salicylate	119-36-8      24 Hr EC50 Daphnia magna: 50 mg/L
<b>Persistence and degradability</b>	Not available
<b>Bioaccumulation/accumulation</b>	Not available
<b>Mobility in environmental media</b>	Not available
<b>Environmental effects</b>	Not available
<b>Aquatic toxicity</b>	Not available
<b>Partition coefficient</b>	Not available
<b>Chemical fate information</b>	Not available
<b>Other adverse effects</b>	Not available

## 13. Disposal Considerations

<b>Disposal instructions</b>	Dispose in accordance with all applicable regulations. DO NOT reuse empty container. Rinse and discard or offer for recycling where facilities exist. Large quantities of waste liquid: Contain and collect for evaluation and disposal according to local, state, provincial and federal regulations.
<b>Waste from residues / unused products</b>	Not available
<b>Contaminated packaging</b>	Not available

## 14. Transport Information

### U.S. Department of Transportation (DOT)

UN 1760, Corrosive Liquid, N.O.S. (Hydrochloric acid, Hydroxyethyl alkylamine) Class 8, PG II, Limited Quantity

**Transportation of Dangerous Goods (TDG - Canada)**

UN 1760, Corrosive Liquid, N.O.S. (Hydrochloric acid, Hydroxyethyl alkylamine) Class 8, PG II, Limited Quantity

**IMDG (Marine Transport)**

UN 1760, Corrosive Liquid, N.O.S. (Hydrochloric acid, Hydroxyethyl alkylamine) Class 8, PG II, Limited Quantity

**IATA/ICAO (Air)**

UN 1760, Corrosive Liquid, N.O.S. (Hydrochloric acid, Hydroxyethyl alkylamine) Class 8, PG II

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## 15. Regulatory Information

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**Canadian federal regulations**

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.

Product Registration: Registered with TPD, DIN 02301326

**Canada - WHMIS - Ingredient Disclosure List**

Hydrochloric acid	7647-01-0	1 %
Methyl salicylate	119-36-8	0.1 %

**WHMIS classification**

Exempt - Registered product - (DIN 02301326)

**Inventory Status**

<b>Country(s) or region</b>	<b>Inventory Name</b>	<b>On Inventory (Yes/No)*</b>
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No

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**

LYSOL® Brand (Kills 99.9% of Viruses & Bacteria) Deep Reach® Toilet Bowl Cleaner Complete Clean, 710 mL - 0259960v1.0

**Issue date**

14-Sept-2012

**Effective Date**

15-Sept-2012

**Expiry Date**

15-Sept-2015

**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.