

1. Product and Company Identification

Product Name LYSOL® Disinfectant (Kills 99.9% of Viruses & Bacteria) Toilet Bowl Cleaner Lime & Rust Remover

CAS # Mixture

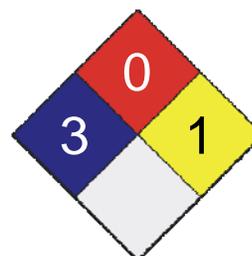
This MSDS is designed for workplace employees, emergency personnel and for other conditions and situations where there is a greater potential for large-scale or prolonged exposure, in accordance with requirements of the Canadian Workplace Hazardous Materials Information System (WHMIS). This MSDS is not 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
 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	/ 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

Eye, Skin contact, Inhalation, Ingestion.

Eyes

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

Skin

Corrosive to skin.
 Not expected to be a skin sensitizer.

Inhalation

Do not breathe vapours or fumes from the drain.

Ingestion

Harmful or fatal if swallowed.

Target organs

Eyes. Respiratory system. Skin.

Chronic effects

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

Signs and symptoms

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

Potential environmental effects

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

Eye contact	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.
Skin contact	If splashed on skin, immediately flush with soap and water. Get medical attention if irritation persists.
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	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

Flammable properties	Not flammable by WHMIS criteria.
Extinguishing media	
Suitable extinguishing media	Dry chemical. Water spray. Foam.
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: Hydrogen chloride. 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.
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 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.

7. Handling and Storage

Handling	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. When using do not eat or drink.
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 offer for recycling where facilities exist. Keep out of reach of children.

8. Exposure Controls / Personal Protection

Exposure limit values

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

9. Physical and Chemical Properties

Appearance	Clear
Colour	Blue
Form	Liquid
Odour	Wintergreen
Odour threshold	Not available

Physical state	Liquid
pH	< 1 (Acidic)
Freezing point	Not available
Boiling point	Not available
Pour point	Not available
Evaporation Rate	Not available
Flash point	> 93.33 °C (> 200 °F) Tagliabue
Auto-ignition temperature	Not available
Flammability limits in air, lower, % by volume	Not available
Flammability Limits in Air, Upper, % by Volume	Not available
Vapour pressure	Not available
Vapour density	Not available
Specific gravity	1.040 - 1.050
Octanol/water coefficient	Not available
Solubility (H2O)	Complete
Viscosity	Viscous

10. Stability and Reactivity

Reactivity	This product may react with strong oxidizing agents.
Possibility of hazardous reactions	Hazardous polymerisation does not occur.
Chemical stability	Stable under recommended storage conditions.
Conditions to avoid	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.
Incompatible materials	Bases. Reducing agents.
Hazardous decomposition products	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

Eye	Corrosive to the eyes and may cause severe damage including blindness.
Skin	Corrosive to skin. Not expected to be a skin sensitizer.
Inhalation	Do not breathe vapours or fumes from the drain.
Ingestion	Harmful or fatal if swallowed.
Sensitisation	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	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 Fish - Acute Toxicity Data	
Hydrochloric acid	7647-01-0 96 Hr LC50 Gambusia affinis: 282 mg/L [static]
Ecotoxicity - Water Flea - Acute Toxicity Data	
Methyl salicylate	119-36-8 24 Hr EC50 Daphnia magna: 50 mg/L
Persistence and 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
Other adverse effects	Not available

13. Disposal Considerations

Disposal instructions	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.
Waste from residues / unused products	Not available
Contaminated packaging	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

15. Regulatory Information

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 02374471

Canada - WHMIS - Ingredient Disclosure List

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

WHMIS classification

Exempt - Registered product - (DIN 02374471)

Inventory Status

Country(s) or region	Inventory Name	On Inventory (Yes/No)*
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)

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® Disinfectant (Kills 99.9% of Viruses & Bacteria) Toilet Bowl Cleaner Lime & Rust Remover, 710 mL - 0259960v1.0

Issue date

27-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.