

MATERIAL SAFETY DATA SHEET

1.1	1. Product and Company Identification	
Product Name CAS #	LYSOL® Brand Disinfectant Power Toilet Bowl Cleaner UPC CODES Refer to Section 16 Mixture	
Product use Manufacturer	Toilet bowl cleaner 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/NFPASevere4Serious3Moderate2Slight1Minimal0	Health * 3 Flammability 0 Physical Hazard 1 Personal Protection D	
	2. Hazards Identification	
Emergency overview	DANGER CORROSIVE TO EYES AND SKIN This product may be harmful or fatal if swallowed. Avoid contact with eyes, skin or clothing. Avoid breathing mists or vapors. Fumes are corrosive to metal.	
-	Keep out of reach of children.	
Potential short term health effects Routes of exposure Eyes Skin	Eye, Skin contact, Inhalation, Ingestion. Causes chemical burns. May cause blindness. Causes chemical burns.	
Inhalation Ingestion Target organs	May cause respiratory tract irritation or chemical burns. Harmful if swallowed. May cause chemical burns to mouth, throat and stomach. Eyes. Respiratory system. Skin.	
Chronic effects Signs and symptoms	Prolonged or repeated exposure to dilutions can cause drying, defatting and dermatitis. The product causes burns of eyes, skin and mucous membranes.	

3. Composition / Information on Ingredients

Ingredient(s)	CAS #	Percent
Hydrogen chloride	7647-01-0	10 - 20
Alcohols, C12-16, ethoxylated	68551-12-2	1 - 2.5
Ethoxylated aliphatic amines	61791-26-2	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. Call a poison control center or doctor for treatment advice.

Skin contact	Immediately flush with cool water for 20 minutes while removing contaminated clothing and shoes. Discard or wash well before reuse. Obtain medical attention if irritation persists.	
Inhalation	If symptoms develop move victim to fresh air. If symptoms persist, obtain medical attention.	
Ingestion	Do not induce vomiting. If vomiting occurs naturally, have victim lean forward to reduce risk of aspiration. Never give anything by mouth if victim is unconscious, or is convulsing. Obtain medical attention.	
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 OSHA 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.	
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. Large Spills: Wet down with water and dike for later disposal. After removal flush contaminated area thoroughly with water.		
	7. Handling and Storage		
Handling	Use good industrial hygiene practices in handling this material. Do not get this material in your eyes, on your skin, or on your clothing.		
Storage	Keep out of the reach of children. Store in a closed container away from incompatible		

materials.

8. Exposure Controls / Personal Protection

Exposure limits Ingredient(s)	Exposure Limits	
Alcohols, C12-16, ethoxylated	ACGIH-TLV	
	Not established	
	OSHA-PEL	
	Not established	
Ethoxylated aliphatic amines	ACGIH-TLV	
	Not established	
	OSHA-PEL	
	Not established	
Hydrogen chloride	ACGIH-TLV	
	Ceiling: 2 ppm	
	OSHA-PEL	
	Ceiling: 5 ppm	
Engineering controls	General ventilation normally adequate.	
Personal protective equipment		
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	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	Blue
Form	Liquid
Odor	Wintergreen
Odor threshold	Not available
Physical state	Liquid
рН	< 1 (Acidic)
Freezing point	Not available
Pour point	Not available
Boiling point	Not available
Flash point	> 93.33 °C (> 200 °F) Tagliabue
Evaporation rate	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	Not available
Octanol/water coefficient	Not available
Solubility (H2O)	Complete

Not available Viscous

10. Stability and Reactivity

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.
Incompatible materials	Bases. Reducing agents.
Hazardous decomposition products	May include and are not limited to:
Possibility of hazardous reactions	Hazardous polymerization does not occur.

11. Toxicological Information

Acute effects	Acute LD50: 1350 mg/kg, Rat, Oral Acute LD50: >2000 mg/kg, Rabbit, Dermal		
Component analysis - LC50			
Ingredient(s)	LC50		
Alcohols, C12-16, ethoxylated	Not available		
Ethoxylated aliphatic amines	Not available		
Hydrogen chloride	935 ppm mouse; 3124 mg/l/4h rat		
Component analysis - Oral LD5	0		
Ingredient(s)	LD50		
Alcohols, C12-16, ethoxylated	1380 mg/kg rat		
Ethoxylated aliphatic amines	620 mg/kg rat		
Hydrogen chloride	900 mg/kg rabbit; 700 mg/kg rat		
Effects of acute exposure			
Eye	Causes chemical burns. May cause blindness.		
Skin	Causes chemical burns.		
Inhalation	May cause respiratory tract irritation or chemical burns.		
Ingestion	Harmful if swallowed. May cause chemical burns to mouth, throat and stomach.		
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	s - Carcinogens		
Hydrogen chloride IARC - Group 3 (Not Classifiable	7647-01-0 A4 - Not Classifiable as a Human Carcinogen e)		
Hydrogen chloride	7647-01-0 Monograph 54 [1992]		
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 - Frashwatar Fish Spacia	s Data

Ecotoxicity - Freshwater Fish Species Data		
Hydrogen chloride	7647-01-0	96 Hr LC50 Gambusia affinis: 282 mg/L [static]
Environmental effects	Not availab	ble
Aquatic toxicity	Not availab	ble
Persistence / degradability	Not availab	ble
Bioaccumulation / accumulation	n Not availab	ble

Partition coefficientNot availableMobility in environmental mediaNot availableChemical fate informationNot available

13. Disposal Considerations

Waste codes	Not available
Disposal instructions	Dispose in accordance with all applicable regulations.
Waste from residues / unused products	Not available
Contaminated packaging	Not available

14. Transport Information

U.S. Department of Transportation (DOT)

UN 1789, Hydrochloric Acid Solution, Class 8, PG II, Re-Classed as Consumer Commodity ORM-D

Transportation of Dangerous Goods (TDG - Canada)

UN 1789, Hydrochloric Acid Solution, Class 8, PG II, Re-Classed as Consumer Commodity / Limited Quantity

IMDG (Marine Transport)

UN 1789, Hydrochloric Acid Solution, Class 8, PG II, Limited Quantity

15. Regulatory Information				
JS Federal regulations	Commur	This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200. All components are on the U.S. EPA TSCA Inventory List.		
	EPA Reg	gistration No 777-81		
U.S CERCLA/SARA - Hazardo	ous Substances a	nd their Reportable Quantities		
Hydrogen chloride U.S CERCLA/SARA - Section	7647-01-0 302 Extremely H a	5000 Lb final RQ; 2270 kg final RQ azardous Substances EPCRA RQs		
Hydrogen chloride U.S CERCLA/SARA - Section	7647-01-0 302 Extremely H a	5000 Lb EPCRA RQ (gas only) azardous Substances TPQs		
Hydrogen chloride U.S CERCLA/SARA - Section	7647-01-0 313 - Emission R	500 Lb TPQ (gas only) Reporting		
Hydrogen chloride	7647-01-0	1.0 % de minimis concentration (acid aerosols including mists, vapors, gas, fog, and othe airborne forms of any particle size)		
U.S CWA (Clean Water Act) - Hydrogen chloride	7647-01-0	Present		
Dccupational Safety and Healt				
29 CFR 1910.1200 hazardo chemical				
CERCLA (Superfund) reportabl	e quantity			
Hydrogen chloride: 5000.000				
Superfund Amendments and R		Act of 1986 (SARA)		
Hazard categories Immedi Delayed Fire Ha Pressur		ate Hazard - Yes Hazard - Yes ard - No Hazard - No ty Hazard - No		
Section 302 extremely hazardous substance	No			
Section 311 hazardous che	mical Yes			
Clean Air Act (CAA)	Not avail	lable		
Clean Water Act (CWA)	Not avail	lable		

State regulations		ict does not contain a chemical known to the State of California to cause rth defects or other reproductive harm.
U.S California - 8 CCR Section	n 339 - Director's L	ist of Hazardous Substances
Hydrogen chloride U.S Illinois - Toxic Air Contan	7647-01-0 iinants	Present
Hydrogen chloride U.S Louisiana - Reportable Qเ	7647-01-0 antity List for Pol	Present (aerosol) Iutants
Hydrogen chloride	7647-01-0	5000 Lb RQ (applies to unauthorized emissions based on total mass emitted into or onto all media within any consecutive 24-hour period); 1000 lb RQ (applies to unauthorized emissions based on total mass emitted into the atmosphere)
U.S Massachusetts - Right To	Know List	
Hydrogen chloride U.S Minnesota - Hazardous S i	7647-01-0 Jbstance List	Extraordinarily hazardous
Hydrogen chloride U.S New Jersey - Right to Kno	7647-01-0 w Hazardous Sub	Present stance List
Hydrogen chloride U.S New York - Reporting of F	7647-01-0 Releases Part 597 -	sn 1012 List of Hazardous Substances
Hydrogen chloride U.S North Carolina - Control o	7647-01-0 f Toxic Air Polluta	5000 Lb RQ (air); 100 lb RQ (land/water) nts
Hydrogen chloride U.S Ohio - Extremely Hazardo	7647-01-0 us Substances - T	0.7 mg/m3 (acute irritants) hreshold Quantities
Hydrogen chloride U.S Pennsylvania - RTK (Righ	7647-01-0 t to Know) List	500 Lb TQ (gas only)
Hydrogen chloride U.S Rhode Island - Hazardous	7647-01-0 Substance List	Environmental hazard
Hydrogen chloride U.S Texas - Tier II Chemical R	7647-01-0 eporting - Extreme	Toxic; Flammable Ply Hazardous Substances - Reportable Quantities
Hydrogen chloride U.S Texas - Tier II Chemical R	7647-01-0 eporting - Extreme	5000 Lb RQ (gas) Iy Hazardous Substances - Threshold Planning Quantities
Hydrogen chloride	7647-01-0	500 Lb TPQ (gas)
Inventory status		
Country(s) or region	Inventory	name On inventory (yes/no)*
United States & Puerto Rico	Toxic Sub	stances Control Act (TSCA) Inventory Yes
A "Voc" indicatos that all compone	nte of thie product o	α

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.	
Recommended use	It is a violation of Federal law to use this product in a manner inconsistent with its labeling.	
Further information	19200-02518-LYSOL® Brand Disinfectant Power Toilet Bowl -16oz. FORMULA NUMBER 353846 EPA Registration No 777-81	
	19200-02522-LYSOL® Brand Disinfectant Power Toilet Bowl-24 oz. FORMULA NUMBER 353846 EPA Registration No 777-81	
	19200-79174-LYSOL® Brand Disinfectant Power Toilet Bowl-2/24 oz. FORMULA NUMBER 353846 EPA Registration No 777-81	
Issue date	30-Oct-2009	
Effective date	31-Oct-2009	
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.	