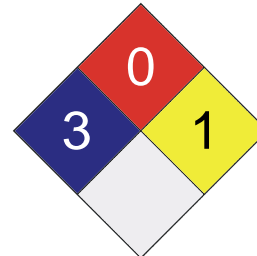


1. Product and Company Identification

Product Name LIME-A-WAY® - Professional Strength Toilet Bowl Cleaner
UPC CODES Refer to Section 16
CAS # Mixture
Product Use Cleaner
Distributed by Reckitt Benckiser (Canada) Inc.
 1680 Tech Avenue Unit #2
 Mississauga, ON L4W 5S9
 In Case of Emergency: 1-800-888-0192
 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	0
Personal Protection	D



2. Hazards Identification

Emergency Overview

DANGER -- CORROSIVE
 CAUSES BURNS. DANGEROUS FUMES FORM WHEN MIXED WITH OTHER PRODUCTS. DO NOT use with chlorine bleach or any other chemical products. DO NOT swallow. DO NOT get in eyes. DO NOT get on skin or clothing. DO NOT breathe fumes. Handle with care. Wear rubber gloves. TO OPEN CHILD RESISTANT CAP: Hold bottle firmly with one hand on a flat surface. With other hand place your thumb and index finger on the ridged areas and squeeze sides of cap while turning counterclockwise. AVOID SQUEEZING BOTTLE WHEN OPENING. CAP IS NOT REMOVABLE. To reseal, twist cap clockwise until tightly closed

Keep out of reach of children.

Potential short term health effects

Routes of exposure

Eye, Skin contact, Inhalation, Ingestion.

Eyes

Corrosive liquid.
 Causes eye damage.
 Do not get into eyes.

Skin

Corrosive liquid.
 Causes skin damage.
 Do not get on skin or clothing.
 Not expected to be a skin sensitizer.

Inhalation

Do not breathe vapor or fumes.
 Use only in a well ventilated area.
 For occupational exposures, ensure adequate exhaust ventilation to control contaminant levels are below the TLV or PEL, or wear appropriate personal protective equipment (respirator).

Ingestion

Harmful if swallowed.
 Contains hydrochloric acid.

Target organs

Eyes. Skin.

Chronic effects

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

Signs and symptoms

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

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	In case of eye contact, IMMEDIATELY rinse eyes thoroughly with plenty of water. Remove any contact lenses and continue rinsing eyes for at least 15 minutes. Get immediate medical attention.
Skin contact	If on skin, rinse well with water. If on clothes, remove clothes.
Inhalation	If breathed in, move person into fresh air.
Ingestion	If swallowed, call a Poison Control Centre or doctor immediately. DO NOT induce vomiting.

Notes to physician

Contains hydrochloric acid.
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 WHMIS 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 nitrogen. Oxides of sulphur.

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.

7. Handling and Storage

Handling

Corrosive material.
CORROSIVE TO EYES AND SKIN.
Use good industrial hygiene practices in handling this material.
Do not close toilet bowl lid while soaking.
Do not get this material in your eyes, on your skin, or on your clothing.

Storage

Keep out of the reach of children. Keep this material away from food, drink and animal feed. Store in original container in a cool, secure area inaccessible to children and pets.

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**Eye/Face protection**

Avoid contact with eyes.
If splashes are likely to occur, wear: Wear chemical goggles and face shield.
Emergency responders should wear full eye and face protection.

Hand protection

Wear impervious gloves where the potential for contact with the liquid is possible.
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.
Emergency responders should wear impermeable clothing and footwear when responding to a situation where contact with the liquid is possible.

Respiratory protection

No special requirements under normal use conditions.
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

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

Appearance	Clear.
Colour	Green
Form	aqueous solution
Odour	Wintergreen
Odour threshold	Not available
Physical state	Liquid
pH	< 1 (Strongly acidic)
Freezing point	Not available
Boiling point	Not available
Pour point	Not available
Flash point	> 93.3 °C (> 199.94 °F) Tagliabue
Evaporation Rate	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
Auto-ignition temperature	Not available
Viscosity	Viscous

10. Stability and Reactivity

Chemical stability	Stable under recommended storage conditions.
Conditions to avoid	Do not mix with other chemicals. Exposure to moisture. Corrosive to aluminum. Do not mix with chlorine bleach, or other cleaning and disinfecting chemicals.
Incompatible materials	Caustics. Oxidizers. Aluminum.
Hazardous decomposition products	May include and are not limited to: Oxides of nitrogen. Oxides of sulphur.
Possibility of hazardous reactions	Hazardous polymerisation does not occur.

11. Toxicological Information

Component analysis - LC50

Ingredient(s)	LC50
Alcohols, C12-16, ethoxylated	Not available
Ethoxylated aliphatic amines	Not available
Hydrochloric acid	935 ppm mouse; 3124 mg/l/4h rat
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 liquid. Causes eye damage. Do not get into eyes.
Skin	Corrosive liquid. Causes skin damage. Do not get on skin or clothing. Not expected to be a skin sensitizer.
Inhalation	Do not breathe vapor or fumes. Use only in a well ventilated area. For occupational exposures, ensure adequate exhaust ventilation to control contaminant levels are below the TLV or PEL, or wear appropriate personal protective equipment (respirator).
Ingestion	Harmful if swallowed. Contains hydrochloric acid.
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.

ACGIH - Threshold Limit Values - Carcinogens

Hydrochloric acid 7647-01-0 A4 - Not Classifiable as a Human Carcinogen

IARC - Group 3 (Not Classifiable)

Hydrochloric acid 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	Because of the low pH of this product, it would be expected to produce significant ecotoxicity upon exposure to aquatic organisms and aquatic systems.	
Ecotoxicity - Freshwater Fish Species Data		
Hydrochloric acid	7647-01-0	96 Hr LC50 Gambusia affinis: 282 mg/L [static]
Ecotoxicity - Water Flea Data		
Methyl salicylate	119-36-8	24 Hr EC50 Daphnia magna: 50 mg/L
Environmental effects	Not available	
Aquatic toxicity	Not available	
Persistence and degradability	Not available	
Bioaccumulation/accumulation	Not available	
Partition coefficient	Not available	
Mobility in environmental media	Not available	
Chemical fate information	Not available	
Other adverse effects	Not 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 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., (Contains Hydrochloric Acid and Hydroxyethyl alkylamine), Class 8, PG II, Limited Quantity

IATA/ICAO (Air)

UN 1760 - Corrosive Liquid, N.O.S., (Contains Hydrochloric Acid and 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: Not registered

Canada - WHMIS - Ingredient Disclosure List

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

WHMIS classification

Exempt - Consumer product

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

51700-60000 - LIME-A-WAY® Professional Strength Toilet Bowl Cleaner - 473 mL - 0253892

Issue date

04-Jun-2010

Effective Date	01-Jun-2010
Expiry Date	01-Jun-2013
Prepared by	Reckitt Benckiser Regulatory Department 800-333-3899
Other Information	For an updated MSDS, please contact the supplier/matrix manufacturer listed on the first page of the document.