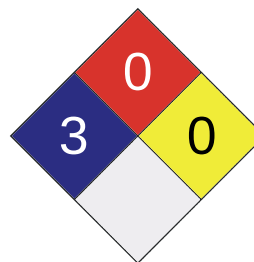


1. Product and Company Identification

Product Name	LIME-A-WAY® Cleaner Toggle Top
UPC CODES	Refer to Section 16
CAS #	Mixture
Product use	Cleaner
Distributed by	Reckitt Benckiser Morris Corporate Center IV 399 Interpace Parkway P.O. Box 225 Parsippany, NJ 07054-0225 In Case of Emergency: 1-800-228-4722 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. HARMFUL IF SWALLOWED. Causes eye and skin damage. DO NOT get in eyes, on skin or on clothing. DO NOT ingest. DO NOT breathe vapor or mist. DO NOT mix with bleach or other household chemicals as harmful fumes may result. Handle with care, wear rubber gloves and eye protection. Use in well-ventilated areas. Contains sulfamic acid and ethoxylated tallow amine.

KEEP OUT OF REACH OF CHILDREN.

Potential short term health effects

Routes of exposure

Eye, Skin contact, Inhalation, Ingestion.

Eyes

Corrosive to eyes.
Causes eye damage.

Skin

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

Inhalation

Vapors and mists may be irritating to the respiratory tract.
Avoid breathing vapors.

Ingestion

Harmful if swallowed.
Contains sulfamic acid and ethoxylated tallow amine.

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
Sulfamic acid	5329-14-6	10 - 20
Ethoxylated aliphatic amines	61791-26-2	1 - 2.5

4. First Aid Measures

First aid procedures

Eye contact	If in eyes, IMMEDIATELY rinse eyes thoroughly with water. Remove any contact lenses and continue rinsing eyes for at least 15 minutes. Get IMMEDIATE medical attention.
Skin contact	If on skin, IMMEDIATELY wash with soap and water. Get IMMEDIATE medical attention.
Inhalation	If inhaled, move person to fresh air.
Ingestion	If swallowed, rinse mouth and drink a glass of water. Call a Physician or Poison Control Center.
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	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 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 limits	
Ingredient(s)	Exposure Limits
Ethoxylated aliphatic amines	ACGIH-TLV Not established OSHA-PEL Not established
Sulfamic acid	ACGIH-TLV Not established OSHA-PEL Not established
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	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. 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.
Color	Pale yellow
Form	aqueous solution
Odor	Fresh.
Odor threshold	Not available
Physical state	Liquid
pH	1 - 2
Freezing point	Not available
Boiling point	Not available
Pour point	Not available
Evaporation rate	Not available
Flash point	> 199.94 °F (> 93.3 °C) Tagliabue
Auto-ignition temperature	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

10. Stability and Reactivity

Chemical stability	Stable under recommended storage conditions.
Conditions to avoid	Do not mix with other chemicals. Exposure to moisture.
Incompatible materials	Caustics. Oxidizers.
Hazardous decomposition products	May include and are not limited to: Oxides of nitrogen. Oxides of sulphur.
Possibility of hazardous reactions	Hazardous polymerization does not occur.

11. Toxicological Information

Component analysis - LC50

Ingredient(s)	LC50
Ethoxylated aliphatic amines	Not available
Sulfamic acid	Not available

Component analysis - Oral LD50

Ingredient(s)	LD50
Ethoxylated aliphatic amines	620 mg/kg rat
Sulfamic acid	1312 mg/kg mouse; 1050 mg/kg guinea pig; 3160 mg/kg rat

Effects of acute exposure

Eye	Corrosive to eyes. Causes eye damage.
Skin	Corrosive to skin. Causes skin damage. Not expected to be a skin sensitizer.
Inhalation	Vapors and mists may be irritating to the respiratory tract. Avoid breathing vapors.
Ingestion	Harmful if swallowed. Contains sulfamic acid and ethoxylated tallow amine.
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.
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.
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Ecotoxicity - Freshwater Fish Species Data

Sulfamic acid	5329-14-6	96 Hr LC50 Pimephales promelas: 14.2 mg/L [static]
Environmental effects	Not available	
Aquatic toxicity	Not available	
Persistence / degradability	Not available	
Bioaccumulation / accumulation	Not available	
Partition coefficient	Not available	
Mobility in environmental media	Not available	
Chemical fate information	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

14. Transport Information

U.S. Department of Transportation (DOT)

UN 1760, Corrosive Liquid, N.O.S. (Sulfamic acid,
ethoxylated tallow alkylamine), Class 8, PG II, Limited Quantity
- Re-classed as Consumer Commodity ORM-D

Transportation of Dangerous Goods (TDG - Canada)

UN 1760, Corrosive Liquid, N.O.S. (Sulfamic acid,
ethoxylated tallow alkylamine), Class 8, PG II, Limited Quantity,
Re-classed as Consumer Commodity

IMDG (Marine Transport)

UN 1760, Corrosive Liquid, N.O.S. (Sulfamic acid,
ethoxylated tallow alkylamine), Class 8, PG II, Limited Quantity

UN 1760, Corrosive Liquid, N.O.S. (Sulfamic acid, ethoxylated tallow alkylamine), Class 8, PG II

15. Regulatory Information

US Federal regulations This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.
CERCLA/SARA Hazardous Substances - Not applicable.

Product Registration: Not registered

Occupational Safety and Health Administration (OSHA)

29 CFR 1910.1200 hazardous chemical Yes

CERCLA (Superfund) reportable quantity

None

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories Immediate Hazard - Yes
Delayed Hazard - No
Fire Hazard - No
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

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. - New Jersey - Right to Know Hazardous Substance List

Sulfamic acid 5329-14-6 sn 1770

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)

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 51700-539605 - LIME-A-WAY® Cleaner Toggle Top - 28 oz. - 380047

Issue date 20-Jul-2010

Effective date 01-Mar-2010

Prepared by
Other information

Reckitt Benckiser Regulatory Department 800-333-3899

For an updated MSDS, please contact the supplier/manufacturer listed on the first page of the document.