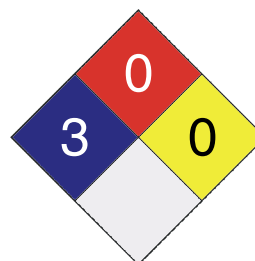


1. Product and Company Identification

Product Name	LIME-A-WAY® CLEANER (Sprayer)
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 mix with bleach or other household chemicals. DO NOT swallow. DO NOT get in eyes. DO NOT get on skin or clothing. DO NOT breathe fumes. DO NOT spray towards face. Handle with care. Wear rubber gloves and eye protection. Use in well-ventilated area. To open, wear rubber gloves and press tab in and hold down while turning nozzle. To close, turn nozzle back until tab locks into position. Always re-close after use and store closed. Keep out of reach of children.
Potential short term health effects	
Routes of exposure	Eye, Skin contact, Inhalation, Ingestion.
Eyes	Corrosive liquid. Risk of serious damage to eyes. Avoid eye contact.
Skin	Corrosive liquid. Avoid skin contact. Not expected to be a skin sensitizer.
Inhalation	Do not breathe spray. Avoid breathing vapors. Use only in a well ventilated area.
Ingestion	May be harmful if swallowed. Contains sulfamic 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
Sulfamic acid	5329-14-6	5 - 10

4. First Aid Measures

First aid procedures

Eye contact	If in eyes, rinse with water for 15 minutes.
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 sulfamic acid.

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 get this material in your eyes, on your skin, or on your clothing.
Avoid contact with wood, fabric and wallpaper.

NOTE: DO NOT use on natural marble, stone, terrazzo, polished or anodized aluminum, metallic or painted surfaces, coloured grout or counter tops. May etch some older or worn porcelain tubs and sinks or ceramic tile. If in doubt, test hidden areas first.

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

Sulfamic acid

ACGIH-TLV

Not established

Engineering controls

Use only under good ventilation conditions or with respiratory protection.

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. Follow label directions carefully.
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

Avoid breathing mists or vapours.
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

Colourless

Form

aqueous solution

Odour

Characteristic

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

1.02 - 1.05

Octanol/water coefficient

Not available

Solubility (H₂O)

Complete

Auto-ignition temperature

Not available

10. Stability and Reactivity

Chemical stability	Stable under recommended storage conditions.
Conditions to avoid	Do not mix with other chemicals. Exposure to moisture. DO NOT MIX WITH BLEACH or use in conjunction with other household products.
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 polymerisation does not occur.

11. Toxicological Information

Component analysis - LC50

Ingredient(s)	LC50
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Sulfamic acid	Not available
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Component analysis - Oral LD50

Ingredient(s)	LD50
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Sulfamic acid	1312 mg/kg mouse; 1050 mg/kg guinea pig; 3160 mg/kg rat
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Effects of acute exposure

Eye	Corrosive liquid. Risk of serious damage to eyes. Avoid eye contact.
Skin	Corrosive liquid. Avoid skin contact. Not expected to be a skin sensitizer.
Inhalation	Do not breathe spray. Avoid breathing vapors. Use only in a well ventilated area.
Ingestion	May be harmful if swallowed. Contains sulfamic 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.

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

Sulfamic acid 5329-14-6 96 Hr LC50 Pimephales promelas: 14.2 mg/L [static]

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 3264 - Corrosive Liquid, Acidic, Inorganic, N.O.S.
(Sulfamic Acid), Class 8, Packing Group II, Limited
Quantity

Transportation of Dangerous Goods (TDG - Canada)

UN 3264 - Corrosive Liquid, Acidic, Inorganic, N.O.S.
(Sulfamic Acid), Class 8, Packing Group II, Limited
Quantity

IMDG (Marine Transport)

UN 3264 - Corrosive Liquid, Acidic, Inorganic, N.O.S.
(Sulfamic Acid), Class 8, Packing Group II, Limited
Quantity

UN 3264 - Corrosive Liquid, Acidic, Inorganic, N.O.S.
(Sulfamic Acid), Class 8, Packing Group 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

Sulfamic acid 5329-14-6 1 %

WHMIS classification Exempt - Consumer product

Inventory Status

Country(s) or region	Inventory Name	On Inventory (Yes/No)*
Canada	Domestic Substances List (DSL)	No
Canada	Non-Domestic Substances List (NDSL)	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 51700-50000 - LIME-A-WAY® Cleaner (Sprayer) - 473 mL - 368926

Issue date 12-May-2010

Effective Date 15-May-2010

Expiry Date 15-May-2013

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.