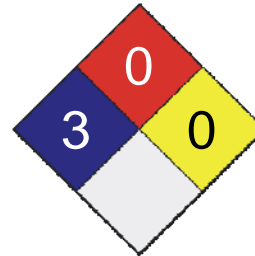


1. Product and Company Identification

Product Name LIME-A-WAY® Cleaner - Toggle
CAS # Mixture
Product use Remover
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	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.

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. Causes eye damage.

Skin

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

Inhalation

Vapors/mists may cause irritation to the respiratory tract. Avoid breathing vapors.

Ingestion

Harmful if swallowed.

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.

OSHA Regulatory Status

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

Potential environmental effects

See section 12.

3. Composition / Information on Ingredients

Ingredient(s)	CAS #	Percent
Sulfamic acid	5329-14-6	2.5 - 10

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	DO NOT INDUCE VOMITING. If swallowed, rinse mouth and drink a glass of water. Call a Physician or Poison Control Center.

Notes to physician

Treat patient symptomatically.
Product is corrosive material. 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 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.

Environmental precautions

Do not discharge into lakes, streams, ponds or public waters.

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 to original containers for re-use.

7. Handling and Storage

Handling

Ensure adequate ventilation.

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. Do not ingest.

Do not breathe vapours or spray mist.

DO NOT mix with bleach or other household chemicals as harmful fumes may result.

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.

Avoid contact with wood, fabric and wallpaper.

Not for use on food contact surfaces.

DO NOT use on cookware, coffeemakers, tea kettles, humidifiers and washing machines.

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
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 safety glasses with side shields.
 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.
 Avoid breathing mists or vapors.
 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	Colorless
Form	aqueous solution
Odor	Fresh.
Odor threshold	Not available
Physical state	Liquid
pH	2.0 - 2.22 (Acidic)
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	1.039 - 1.045
Octanol/water coefficient	Not available
Solubility (H2O)	Complete

10. Stability and Reactivity

Reactivity	This product may react with oxidizing agents.
Possibility of hazardous reactions	Hazardous polymerization does not occur.
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 carbon. Oxides of nitrogen. Oxides of sulphur.

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 to the eyes and may cause severe damage including blindness. Causes eye damage.
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Skin	Corrosive to skin. Causes skin damage. Not expected to be a skin sensitizer.
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Inhalation	Vapors/mists may cause irritation to the respiratory tract. Avoid breathing vapors.
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Ingestion	Harmful if swallowed.
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Sensitization	The finished product is not expected to have chronic health effects.
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Chronic effects	The finished product is not expected to have chronic health effects.
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Carcinogenicity	The finished product is not expected to have chronic health effects.
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Mutagenicity	The finished product is not expected to have chronic health effects.
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Reproductive effects	The finished product is not expected to have chronic health effects.
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Teratogenicity	The finished product is not expected to have chronic health effects.
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Name of Toxicologically Synergistic Products	Not available
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12. Ecological Information

Ecotoxicity	See below
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Ecotoxicity - Freshwater Fish - Acute Toxicity Data

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

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

U.S. Department of Transportation (DOT)

UN 3264, Corrosive liquid, acidic, inorganic,
n.o.s.(Sulphamic acid), Class 8, PG II, Limited Quantity

Transportation of Dangerous Goods (TDG - Canada)

UN 3264, Corrosive liquid, acidic, inorganic,
n.o.s.(Sulphamic acid), Class 8, PG II, Limited Quantity

IMDG (Marine Transport)

UN 3264, Corrosive liquid, acidic, inorganic,
n.o.s.(Sulphamic acid), Class 8, PG II, Limited Quantity

IATA/ICAO (Air)

UN 3264, Corrosive liquid, acidic, inorganic,
n.o.s.(Sulphamic acid), Class 8, PG II

15. Regulatory Information

Occupational Safety and Health Administration (OSHA)

29 CFR 1910.1200 hazardous chemical Yes

US Federal regulations This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

Product Registration: Product is compliant with CPSC regulatory guidelines; a specific registration is not required for this product.

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 No

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 LIME-A-WAY® Cleaner - Toggle - 0268114v1.0

Issue date 23-May-2012

Effective date 15-May-2012

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.