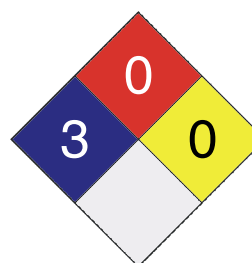


### 1. Product and Company Identification

**Product Name** LIME-A-WAY® Cleaner Trigger  
**UPC CODES** Refer to Section 16  
**CAS #** Mixture  
**Product use** Cleaner  
**Manufacturer** 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.

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	2.5 - 10

---

## 4. First Aid Measures

---

### First aid procedures

<b>Eye contact</b>	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.
<b>Skin contact</b>	If on skin, IMMEDIATELY wash with soap and water. Get IMMEDIATE medical attention.
<b>Inhalation</b>	If inhaled, move person to fresh air.
<b>Ingestion</b>	If swallowed, rinse mouth and drink a glass of water. Call a Physician or Poison Control Center.

### 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 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
---------------	-----------------

---

Sulfamic acid	<b>ACGIH-TLV</b> Not established <b>OSHA-PEL</b> 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.  
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

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	Colorless
Form	aqueous solution
Odor	Characteristic
Odor threshold	Not available
Physical state	Liquid
pH	1 (Strongly acidic)
Freezing point	Not available
Pour point	Not available
Boiling point	Not available
Flash point	> 199.94 °F (> 93.3 °C)
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	1.02 - 1.05
Octanol/water coefficient	Not available
Solubility (H2O)	Complete
Auto-ignition temperature	Not available

---

## 10. Stability and Reactivity

---

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

---

## 11. Toxicological Information

---

### Component analysis - LC50

Ingredient(s)	LC50
Sulfamic acid	Not available

---

### Component analysis - Oral LD50

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

---

### Effects of acute exposure

<b>Eye</b>	Corrosive liquid. Risk of serious damage to eyes. Avoid eye contact.
<b>Skin</b>	Corrosive liquid. Avoid skin contact. Not expected to be a skin sensitizer.
<b>Inhalation</b>	Do not breathe spray. Avoid breathing vapors. Use only in a well ventilated area.
<b>Ingestion</b>	May be harmful if swallowed. Contains sulfamic acid.
<b>Sensitization</b>	The finished product is not expected to have chronic health effects.
<b>Chronic effects</b>	The finished product is not expected to have chronic health effects.
<b>Carcinogenicity</b>	The finished product is not expected to have chronic health effects.
<b>Mutagenicity</b>	The finished product is not expected to have chronic health effects.
<b>Reproductive effects</b>	The finished product is not expected to have chronic health effects.
<b>Teratogenicity</b>	The finished product is not expected to have chronic health effects.
<b>Synergistic Materials</b>	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]

<b>Environmental effects</b>	Not available
<b>Aquatic toxicity</b>	Not available
<b>Persistence / degradability</b>	Not available
<b>Bioaccumulation / accumulation</b>	Not available
<b>Partition coefficient</b>	Not available
<b>Mobility in environmental media</b>	Not available
<b>Chemical fate information</b>	Not available

---

## 13. Disposal Considerations

---

<b>Waste codes</b>	Not available
<b>Disposal instructions</b>	Dispose in accordance with all applicable regulations.
<b>Waste from residues / unused products</b>	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

**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** 51700-39016 - LIME-A-WAY® Cleaner Trigger - 16 oz. - 368926

**Issue date** 09-Mar-2010

**Effective date**

01-Mar-2010

**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.