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:**
  - North America: CHEMTREC: 1-800-424-9300
  - Outside North America: 1-703-527-3887

<table>
<thead>
<tr>
<th>LEGEND</th>
<th>HMIS/NFPA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Health</td>
<td></td>
</tr>
<tr>
<td>/</td>
<td>3</td>
</tr>
<tr>
<td>Flammability</td>
<td></td>
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<tr>
<td>0</td>
<td></td>
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<tr>
<td>Physical Hazard</td>
<td></td>
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<tr>
<td>0</td>
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<tr>
<td>Personal Protection</td>
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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**

<table>
<thead>
<tr>
<th>Ingredient(s)</th>
<th>CAS #</th>
<th>Percent</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sulfamic acid</td>
<td>5329-14-6</td>
<td>2.5 - 10</td>
</tr>
</tbody>
</table>
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.

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

<table>
<thead>
<tr>
<th>Ingredient(s)</th>
<th>Exposure Limits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sulfamic acid</td>
<td>ACGIH-TLV Not established</td>
</tr>
<tr>
<td></td>
<td>OSHA-PEL Not established</td>
</tr>
</tbody>
</table>

**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

**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**

<table>
<thead>
<tr>
<th>Ingredient(s)</th>
<th>LC50</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sulfamic acid</td>
<td>Not available</td>
</tr>
</tbody>
</table>

**Component analysis - Oral LD50**

<table>
<thead>
<tr>
<th>Ingredient(s)</th>
<th>LD50</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sulfamic acid</td>
<td>1312 mg/kg mouse; 1050 mg/kg guinea pig; 3160 mg/kg rat</td>
</tr>
</tbody>
</table>

**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.

**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.

<table>
<thead>
<tr>
<th>Ecotoxicity - Freshwater Fish Species Data</th>
<th></th>
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</thead>
<tbody>
<tr>
<td>Sulfamic acid</td>
<td>5329-14-6</td>
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<tr>
<td></td>
<td>96 Hr LC50 Pimephales promelas: 14.2 mg/L [static]</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Environmental effects</th>
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</tr>
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<tbody>
<tr>
<td>Aquatic toxicity</td>
<td>Not available</td>
</tr>
<tr>
<td>Persistence / degradability</td>
<td>Not available</td>
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<tr>
<td>Bioaccumulation / accumulation</td>
<td>Not available</td>
</tr>
<tr>
<td>Partition coefficient</td>
<td>Not available</td>
</tr>
<tr>
<td>Mobility in environmental media</td>
<td>Not available</td>
</tr>
<tr>
<td>Chemical fate information</td>
<td>Not available</td>
</tr>
</tbody>
</table>

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 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
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
United States & Puerto Rico

Inventory name
Toxic Substances Control Act (TSCA) Inventory

On inventory (yes/no)* 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