



PRODUCT SAFETY DATA SHEET

Print date: 14 Jun 2007

1. PRODUCT AND COMPANY IDENTIFICATION

Item Number / Product code: 0084456

Product name: LIME-A-WAY® LIME, CALCIUM, RUST CLEANER w/
DURA GUARD™ (TRIGGER)

Validation / Revision Date: 05 June 2007

Formula Number: 1228-145 (0084456)

UPC Number and Size: 51700-39016 (16 fl. oz. / 473 ml.) HDPE Trigger spray plastic bottle.

Product Description: Trigger spray lime and rust remover.

Manufacturer: Reckitt Benckiser North America, Inc.
Morris Corporate Center IV
399 Interpace Parkway (P.O. Box 225)
Parsippany, New Jersey 07054-0225

Emergency telephone number: 1-800-228-4722 (U.S.)

Transportation Emergencies: 1-800-424-9300 (U.S. & Canada) CHEMTREC
Outside the U.S. and Canada (North America), call: 703-527-3887

2. COMPOSITION / INFORMATION ON INGREDIENTS

Components:

SULFAMIC ACID 99.5%
5329-14-6
GAFQUAT 755N SURFACTANT
53633-54-8
ETHOXYLATED ALCOHOL 91-8
68439-45-2

Wt %	ACGIH:	OSHA:
5-8	None	None
0-0.5	None	None
1-3	None	None

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

DANGER: CORROSIVE TO EYES AND SKIN!

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.

DO NOT spray directly towards face.

Contains sulfamic acid and alcohol ethoxylate.

KEEP OUT OF REACH OF CHILDREN

4. FIRST AID MEASURES

Inhalation:	Move to fresh air. If irritation occurs or persists or there is any trouble breathing, get immediate medical attention.
Skin contact:	If on skin, IMMEDIATELY wash with soap and water. Get IMMEDIATE medical attention!
Eye contact:	If in eyes, IMMEDIATELY rinse eyes thoroughly and gently with water. Remove contact lenses if present after the first 5 minutes then continue rinsing for at least 15 minutes. Get IMMEDIATE Medical Attention.
Ingestion:	If swallowed, rinse mouth and drink a glass of water. Call a physician or Poison Control Center IMMEDIATELY!
Notes to physician:	Contains sulfamic acid and alcohol ethoxylate.
Aggravated Medical Conditions:	No information available.

5. FIRE-FIGHTING MEASURES

Flash point:	CLOSED CUP: Higher than 93.3° C (>200° F). [Tagliabue].
Flammability Limits in Air:	
Lower:	No information available.
Upper:	No information available.
Autoignition temperature:	No information available.
Suitable extinguishing media:	As suitable for surrounding fire.
Extinguishing media which must not be used for safety reasons:	No information available.
Specific hazards:	Contains sulfamic acid and alcohol ethoxylate.
Unusual hazards:	None known
Special protective equipment for firefighters:	As in any fire, wear self-contained breathing apparatus, pressure-demand, MSHA / NIOSH (approved or equivalent) and full protective gear.

Specific methods:

Standard procedure for chemical fires.

NFPA: Health: 3

Flammability: 0

Instability: 0

HMIS: Health: 3

Flammability: 0

Reactivity: 0

Key: Personal Protection Index = D.
(Also see Sections 3 & 8)

6. ACCIDENTAL RELEASE MEASURES

Personal precautions:

DANGER:
CORROSIVE!
Risk of serious damage to eyes.
Avoid contact with eyes, skin and clothing.
Wear appropriate personal protective equipment.
Rubber gloves and eye protection.
Read and follow container directions.

Environmental precautions:

Do not allow material to contaminate ground water system.

Methods for cleaning up:

When performing the required clean-up operation, wear the appropriate personal protective equipment such as impervious gloves and eye / face protection.

Small spills: Dilute with water and mop up, or absorb with an inert material and place in an appropriate waste disposal container.

Large spills: Contain and collect for later disposal according to local, provincial, state or federal regulations.

7. HANDLING AND STORAGE

Handling:

DANGER!
CORROSIVE TO EYES AND SKIN!
Wear eye / face protection.
Harmful if swallowed.
Use with adequate ventilation.
Use only as directed!
Read container label instructions carefully.

Safe handling advice:

Avoid contact with eyes and skin.
Do not breathe vapours or spray mist.
Do not mix with bleach or any other household cleaning product.
Use only in well-ventilated areas.

Storage:

Store containers in an upright position in a cool, dry area, inaccessible to small children and pets.
KEEP OUT OF REACH OF CHILDREN

Incompatible products:

Do not mix with chlorine bleach, strong alkali materials or other household chemicals.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering measures to reduce exposure:

For occupational exposures, ensure adequate ventilation.

Personal Protective Equipment

Respiratory protection:	Do not breathe vapour or spray mist. Use in a well-ventilated area. 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.
Hand protection:	CORROSIVE TO SKIN! Use rubber gloves, read label instructions 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 product label instructions. 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.
Eye protection:	CORROSIVE TO EYES! Wear eye / face protection. Emergency responders should wear full eye and face protection.
Hygiene measures:	Avoid contact with skin, eyes and clothing. Wash hands with soap and water after handling.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state:	Liquid (Trigger spray container)
Appearance:	Clear liquid.
Colour:	Colourless
Odour:	Characteristic.
pH:	1.0 [Strongly acidic]
Flash point:	Greater than 93° C (>200° F)
Specific gravity:	1.02-1.05
Vapour pressure:	Not determined.
Solubility:	Completely soluble.

Explosion limits:

- upper:	No data available.
- lower:	No data available.

10. STABILITY AND REACTIVITY

Stability:	Stable under recommended storage conditions.
Polymerization:	Hazardous polymerisation does not occur.
Hazardous decomposition products:	Oxides of carbon and unknown organic compounds.
Materials to avoid:	Do not mix with other household chemicals.
Conditions to avoid:	Store away from excessive heat and moisture.

11. TOXICOLOGICAL INFORMATION

Acute toxicity

Component Information:

Product Information

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Product name: LIME-A-WAY® LIME, CALCIUM,
RUST CLEANER w/ DURA GUARD™ (TRIGGER)

Page 4 of 8

LC50/inhalation/4h/rat = No information available.
LD50/dermal/rabbit = No information available.
LD50/oral/rat = No information available.

Local effects

Skin irritation: Corrosive liquid.
Avoid skin contact.

Eye irritation: Corrosive liquid.
Risk of serious damage to eyes.
Avoid eye contact.

Inhalation Do not breathe spray.
Avoid breathing vapors.
Use only in a well ventilated area.

Ingestion Contains sulfamic acid and alcohol ethoxylate.
May be harmful if swallowed. See Section 4 for First Aid instructions.

Sensitization Not expected to be a skin sensitiser.

Chronic toxicity: No information available.

Specific effects

Carcinogenic effects: Not listed as carcinogenic by OSHA, NTP or IARC.

Components:	NTP:	IARC:	OSHA:	Mexico:
SULFAMIC ACID 99.5%	No	No		

Mutagenic effects: No information available.

Reproductive toxicity: No information available.

Target organ effects: No information available.

Information is based on data on the components and the toxicology of similar products.

12. ECOLOGICAL INFORMATION

Product Information

Aquatic toxicity: Because of pH change (Lower) when in water the possibility of danger to aquatic life exists.

Component Information:

Other information:

Ozone depletion potential; ODP; (R-11 = 1) = No information available.
Global warming potential (GWP) = No information available.

Additional ecological information:

Bulk quantities, if spilled, may be toxic to aquatic organisms, fish, birds and mammals. Control and clean up all exterior spills and prevent liquid from entering any streams, rivers, lakes and all other bodies of water.

13. DISPOSAL CONSIDERATIONS

Waste from residues / unused products: Dispose of in accordance with local regulations.

Contaminated packaging:	Empty container can be disposed of as household trash or rinsed and recycled where appropriate.
Waste Disposal:	Small quantities of waste liquid may be discharged into a sanitary sewer. Discard any absorbed material in trash collection. Rinse empty container thoroughly and discard in trash or recycle. Large quantities of waste liquid: Contain and collect for evaluation and disposal according to local, state, provincial and federal regulations.

14. TRANSPORT INFORMATION

UN / Id No:	UN 3264
DOT:	
Classification:	UN 3264 - Corrosive Liquid, Acidic, Inorganic, N.O.S. (Sulfamic Acid), Class 8, Packing Group II, Limited Quantity. Re-Classed as Consumer Commodity ORM-D.
Proper shipping name:	Consumer Commodity
U.S. DOT - Hazard Class:	Not applicable.
Subsidiary risk:	Not applicable.
Packing Group:	Not applicable.
DOT RQ (lbs):	Not applicable.
ERG No:	Not applicable.
TDG (Canada):	
Classification:	UN 3264 - Corrosive Liquid, Acidic, Inorganic, N.O.S. (Sulfamic Acid), Class 8, Packing Group II, Limited Quantity. Re-Classed as Consumer Commodity - Limited Quantity.
Proper shipping name:	Not applicable.
Status:	Not applicable.
Packing Group:	Not applicable.
WHMIS hazard class:	E Corrosive material
IMDG / IMO	
Classification:	UN 3264 - Corrosive Liquid, Acidic, Inorganic, N.O.S. (Sulfamic Acid), Class 8, Packing Group II, Limited Quantity.
Proper shipping name:	Corrosive Liquid, Acidic, Inorganic, N.O.S. (Sulfamic Acid)
Class:	8
Subsidiary Risk:	Not applicable.
Packing group:	II
IMDG page:	Not applicable.
Marine pollutant:	Not applicable.
EMS:	F-A / S-B
MFAG:	See Guide.
Maximum quantity:	See IMDG Code.
ADR / RID	
Classification:	Not applicable.
Proper shipping name:	Not applicable.
Class:	Not applicable.
Subsidiary risk:	Not applicable.
Packing Group:	Not applicable.
ADR/RID-labels:	Not applicable
Hazard Identification Number:	Not applicable.
CEFIC Tremcard No:	Not applicable.
ICAO / IATA:	
Classification:	UN 3264 - Corrosive Liquid, Acidic, Inorganic, N.O.S. (Sulfamic Acid), Class 8, Packing Group II.
Proper shipping name:	Corrosive Liquid, Acidic, Inorganic, N.O.S. (Sulfamic Acid).
Class:	8
Subsidiary Risk:	Not applicable

Packing Group:
Maximum quantity

II
See DG List.

15. REGULATORY INFORMATION

Components:	PICCS:	TSCA:	DSL:	NDSL:	ENCS:	CHINA:	AICS:	EINECS-No
SULFAMIC ACID 99.5%		Present	Present			Present	Present	226-218-8
GAFQUAT 755N SURFACTANT						Present	Present	
ETHOXYLATED ALCOHOL 91-8						Present	Present	None.

U.S. Regulations:

Components:
NJRTK:
California Proposition 65 -
CERCLA/SARA 313: None

SULFAMIC ACID 99.5% - 5329-14-6

Not Listed.

None.

Components:
NJRTK:
California Proposition 65 -
CERCLA/SARA 313: None

GAFQUAT 755N SURFACTANT - 53633-54-8

Not Listed.

None.

Components:
NJRTK:
California Proposition 65 -
CERCLA/SARA 313: None

ETHOXYLATED ALCOHOL 91-8 - 68439-45-2

Not Listed.

None.

Canada

WHMIS hazard class:

E Corrosive material

16. OTHER INFORMATION

National Fire
Protection
Association (U.S.A.):



HMIS (U.S.A.):

Health Hazard	3
Fire Hazard	0
Reactivity	0
Personal Protection	D

Reason for revision:

This is a new product.

Additional advice:

This product should only be used as directed on the label and for the purpose intended.

Prepared by:

Reckitt Benckiser (U.S.) Inc.
Product Safety Department
1 Philips Parkway
Montvale, New Jersey 07646-1810 USA.
Phone: 201-573-6391
FAX: 201-476-7770.

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