



PRODUCT SAFETY DATA SHEET

Print date: 10 Jul 2008

1. PRODUCT AND COMPANY IDENTIFICATION

Item Number / Product code: 0167085 (1411-088)

Product name: LIME-A-WAY® RUST, CALCIUM & LIME TOILET BOWL CLEANER (LIQUID)

Validation / Revision Date: 10 July 2008

EPA Identifier: EPA Reg. Number: 777-81

Formula Number: 1411-088 (0167085)

UPC Number and Size: 51700 39705 (24 oz. / 709 ml) - HDPE Angle neck plastic bottles.

Product Description: Toilet bowl cleaner (liquid).

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:	Wt %	ACGIH:	OSHA:
PARETH 25-9 68131-39-5	1-5	None	None
HYDROCHLORIC ACID 30% 7647-01-0	30-35	Ceiling: 2 ppm @10	Ceiling: 5 ppm @10 Ceiling: 7 mg/m ³ @10
PEG-2 TALLOW AMINE 61791-26-2	1-5	None	None

3. 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 in vapor or fumes.

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

Handle with care.

Wear protective eyewear [safety glasses / goggles], protective gloves and protective clothing.

Use in well ventilated areas.

Contains Hydrochloric Acid.

KEEP OUT OF REACH OF CHILDREN

4. FIRST AID MEASURES

Inhalation:	If inhaled, move to fresh air. If symptoms develop or persist obtain medical attention.
Skin contact:	If on skin, IMMEDIATELY wash with soap and water. Get IMMEDIATE medical attention. Remove and wash contaminated clothing before re-use.
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.
Ingestion:	If swallowed, rinse mouth and drink a glass of water. Call a physician or Poison Control Center IMMEDIATELY!
Notes to physician:	Contains hydrochloric acid. Contains surfactants. Probable mucosal damage may contraindicate the use of gastric lavage .
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:	DANGER! CORROSIVE! The active concentration of HCl (Hydrochloric Acid) is 9.5%. See Section 3, Hazards Identification.			
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: 1	Other data: COR
HMS:	Health: 3	Flammability: 0	Reactivity: 1	
Key:	Personal Protection Index = D. (Also see Sections 3 & 8)			

6. ACCIDENTAL RELEASE MEASURES

Personal precautions:	Ensure adequate ventilation.
Environmental precautions:	Do not allow material to contaminate ground water system.
Methods for cleaning up:	When performing the required clean-up operation, wear suitable protective clothing, 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:	Use in well-ventilated area.
Safe handling advice:	Do not get in eyes, on skin, or on clothing. Do not ingest. Do not breathe vapor or fumes. Wear protective eyewear (safety glasses/goggles), protective gloves and protective clothing. Remove and wash contaminated clothing before re-use. Do not close toilet bowl lid while soaking. Read and follow product label instructions.
Storage:	Store containers in an upright position in a cool, dry area, inaccessible to small children and pets. Store in original container out of reach of small children. Keep securely closed in a cool, well-ventilated area. Do not reuse container or refill this container. KEEP OUT OF REACH OF CHILDREN
Incompatible products:	Bases. Metals. (Corrosive to aluminum.) Do not mix with chlorine bleach, strong alkali materials or other household chemicals. DO NOT allow to come in contact with any surfaces other than the toilet bowl. This product should not be used on or placed on toilet bowl lids, vanities, sinks, bathtubs, cabinets, counter tops, rugs, etc.
EPA Registered Product:	It is a violation of federal law to use this product in a manner inconsistent with its labeling.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering measures to reduce exposure: For occupational exposures, ensure adequate ventilation.

Personal Protective Equipment

Respiratory protection:	None required under normal use conditions. 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! Wear impervious gloves where the potential for contact with the liquid is possible. Read product label instructions carefully. Emergency responders should wear impermeable gloves.
Eye protection:	CORROSIVE TO EYES! Wear eye / face protection. If splashes are likely to occur wear chemical goggles and full face shield. Emergency responders should wear full eye and face protection.
Skin and body protection:	Usual safety precautions while handling the product will provide adequate protection against injury or irritation. Follow product label instructions.
Hygiene measures:	Avoid contact with eyes, skin, and clothing. Wash hands with soap and water after handling.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state:	Liquid.
Appearance:	Clear. Viscous.
Colour:	Lime Green
Odour:	Wintergreen
pH:	Less than (<) 1.0 [Strongly acidic]
Flash point:	Greater than 93° C (>200° F)
Specific gravity:	1.040-1.050
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:	Small amounts of HCl (Hydrogen Chloride) vapors. Oxides of carbon and unknown organic compounds.
Materials to avoid:	Do not mix with other household chemicals. Incompatible with bases. Bleach.
Conditions to avoid:	Store away from excessive heat and moisture.

11. TOXICOLOGICAL INFORMATION

Acute toxicity

Component Information:

Product Information

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.
Causes skin damage.
Do not get on skin or clothing.

Eye irritation: Corrosive liquid.
Causes eye damage.
Do not get into eyes.

Inhalation Contains hydrochloric acid.
Do not breathe vapor or fumes.
Use only in a well ventilated area.
For occupational exposures, ensure adequate exhaust ventilation to control contaminant levels are below the TLV or PEL, or wear appropriate personal protective equipment (respirator).

Ingestion Contains hydrochloric acid.
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.

Mutagenic effects: No information available.

Reproductive toxicity: No information available.

Target organ effects: No information available.

12. ECOLOGICAL INFORMATION

Product Information

Aquatic toxicity: Harmful to aquatic organisms if bulk quantities are spilled into a watersource.

Component Information:

HYDROCHLORIC ACID 30%
7647-01-0 (30-35)

Ecotoxicity: = 3.6 mg/L LC50 bluegill

Other information:

Ozone depletion potential; ODP; (R-11 = 1) =
Global warming potential (GWP) =

No information available.
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:

Do not re-use or refill this container.
Offer for recycling, if available.

Waste Disposal:

Wear appropriate personal protective equipment when cleaning up or handling waste material.
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 1760

DOT:

Classification: UN 1760 - Corrosive Liquid, N.O.S. (Hydrochloric Acid, Hydroxyethyl alkylamine) Class 8, PG 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: 171 / 154

TDG (Canada):

Classification: UN 1760 - Corrosive Liquid, N.O.S. (Hydrochloric Acid, Hydroxyethyl alkylamine) Class 8, PG II, Limited Quantity
Re-Classed as Consumer Commodity
Proper shipping name: Consumer Commodity
Status: Not applicable.
Packing Group: Not applicable.

IMDG / IMO

Classification: UN 1760 Corrosive Liquid, N.O.S., (Contains Hydrochloric Acid and Hydroxyethyl alkylamine), Class 8, PG II, Limited Quantity.
Proper shipping name: Corrosive Liquid, N.O.S., (Contains Hydrochloric Acid and Hydroxyethyl alkylamine)
Class: 8
Subsidiary Risk: Not applicable.
Packing group: II
IMDG page: Not applicable.
Marine pollutant: Not applicable.
EMS: F-A / S-B
MFAG: Not applicable.
Maximum quantity: See DG List.

ADR / RID

Classification: Not applicable.
Proper shipping name: Not applicable.
Class: Not applicable.
Subsidiary risk: Not applicable.
ADR/RID-labels: Not applicable
Hazard Identification Number: Not applicable.
CEFIC Tremcard No: Not applicable.

ICAO / IATA:

Classification: UN 1760 Corrosive Liquid, N.O.S., (Contains Hydrochloric Acid and Hydroxyethyl alkylamine), Class 8, PG II.
Proper shipping name: Corrosive Liquid, N.O.S., (Contains Hydrochloric Acid and Hydroxyethyl alkylamine)
Class: 8
Subsidiary Risk: Not applicable
Packing Group: II
Maximum quantity See DG List and applicable packing instructions.

15. REGULATORY INFORMATION

Components:	PICCS:	TSCA:	DSL:	NDSL:	ENCS:	CHINA:	AICS:	EINECS-No
PARETH 25-9		XU	Present		Present.	Present	Present	None.
HYDROCHLORIC ACID 30%		T	Present			Present	Present	231-595-7
PEG-2 TALLOW AMINE		XU	Present			Present	AICS No. 310-94-1A	

U.S. Regulations:

Components:	<i>PARETH 25-9 - 68131-39-5</i>
NJRTK:	Not Listed.
California Proposition 65 -	None.
Components:	<i>HYDROCHLORIC ACID 30% - 7647-01-0</i>
NJRTK:	Listed. SN #1012
California Proposition 65 -	None.
Components:	<i>PEG-2 TALLOW AMINE - 61791-26-2</i>
NJRTK:	Not Listed.
California Proposition 65 -	None.
CERCLA/SARA 313:	None

Canada

WHMIS hazard class: Not determined.

16. OTHER INFORMATION

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



HMIS (U.S.A.):

Health Hazard	3
Fire Hazard	0
Reactivity	1
Personal Protection	D

Reason for revision:

This is a new formulation of an existing product.

Additional advice:

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

Prepared by:

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