## **SAFETY DATA SHEET**

Issuing Date 18-Apr-2013 Revision Date 28 August 2017 Revision Number 1

## 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

#### **GHS** product identifier

Product Name LIME B GONE

Other means of identification

Product Code(s) 147LIMEBGONE:1G

UN-Number UN1760

Synonyms LSR

## Recommended use of the chemical and restrictions on use

Recommended Use Institutional detergent

Uses advised against No information available

## Supplier's details

Supplier Address NOBLE CHEMICAL, INC. 2205 OLD PHILADELPHIA PIKE LANCASTER, PA 17602 TEL: 1-888-256-6400

### **Emergency telephone number**

Emergency Telephone CHEM-TEL, INC.

**Number** 24 Hour Emergency Contact 1-800-255-3924

## 2. HAZARDS IDENTIFICATION

## Classification

This chemical is considered hazardous according to the OSHA Hazard Communication Standard 2012 (29 CFR 1910.1200)

Acute Inhalation Toxicity - Vapors	Category 4
Acute Inhalation Toxicity - Dusts and Mists	Category 4
Skin Corrosion/Irritation	Category 1 Subcategory 1A
Serious Eye Damage/Eye Irritation	Category 1

#### GHS Label elements, including precautionary statements

#### **Emergency Overview**

Signal Word Danger

**Hazard Statements** 

Harmful if inhaled

Causes severe skin burns and eye damage



Appearance Clear

Physical State Liquid.

Odor No information available

#### **Precautionary Statements**

#### Prevention

- · Use only outdoors or in a well-ventilated area
- Do not breathe dust/fume/gas/mist/vapors/spray
- · Wash face, hands and any exposed skin thoroughly after handling
- Wear protective gloves/protective clothing/eye protection/face protection

#### **General Advice**

· Immediately call a POISON CENTER or doctor/physician

#### **Eyes**

- IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
- Immediately call a POISON CENTER or doctor/physician.

#### Skin

- IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower
- · Wash contaminated clothing before reuse

#### Inhalation

- IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
- Call a POISON CENTER or doctor/physician if you feel unwell

#### Ingestion

• IF SWALLOWED: Rinse mouth. DO NOT induce vomiting

#### Storage

· Store locked up

#### Disposa

Dispose of contents/container to an approved waste disposal plant

#### **Hazard Not Otherwise Classified (HNOC)**

Not applicable

#### Other information

No information available.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Synonyms LSR

Chemical Name	CAS-No	Weight %	Trade secret
Hydrogen chloride	7647-01-0	10-30	*
Phosphoric acid	7664-38-2	10-30	*

<sup>\*</sup>The exact percentage (concentration) of composition has been withheld as a trade secret.

4. FIRST	AID	MEAS	BURES
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## **Description of necessary first-aid measures**

Eye Contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.

Immediate medical attention is required.

**Skin Contact** Wash off immediately with soap and plenty of water. Remove and wash contaminated

clothing before re-use. Immediate medical attention is required.

**Inhalation** Move to fresh air. If breathing is difficult, give oxygen. If symptoms persist, call a physician.

**Ingestion** Drink plenty of water. Do NOT induce vomiting. Never give anything by mouth to an

unconscious person. Immediate medical attention is required.

## Most important symptoms/effects, acute and delayed

**Most Important Symptoms/Effects** No information available.

## Indication of immediate medical attention and special treatment needed, if necessary

Notes to Physician Treat symptomatically.

## 5. FIRE-FIGHTING MEASURES

#### **Suitable Extinguishing Media**

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable Extinguishing Media None

#### **Specific Hazards Arising from the Chemical**

No information available

**Explosion Data** 

Sensitivity to Mechanical Impact None.
Sensitivity to Static Discharge None

## **Protective Equipment and Precautions for Firefighters**

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

## 6. ACCIDENTAL RELEASE MEASURES

#### Personal precautions, protective equipment and emergency procedures

**Personal Precautions** Ensure adequate ventilation. Use personal protective equipment. Avoid contact with skin,

eyes and clothing. Stop leak if you can do it without risk. If spilled, take caution, as material

can cause surfaces to become very slippery.

**Environmental Precautions** 

**Environmental Precautions** Dispose of contents/container to an approved waste disposal plant.

### Methods and materials for containment and cleaning up

Methods for Containment Stop leak if you can do it without risk

Methods for Cleaning Up Contain spill, dilute with water and neutralize as required. Wash away small spills with

plenty of water.

## 7. HANDLING AND STORAGE

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#### Precautions for safe handling

Handling Handle in accordance with good industrial hygiene and safety practice. Avoid breathing

vapors or mists. Use only in area provided with appropriate exhaust ventilation. In case of insufficient ventilation, wear suitable respiratory equipment. Avoid contact with skin, eyes and clothing. Wear personal protective equipment. Do not eat, drink or smoke when using

this product. Do not take internally. Wash thoroughly after handling.

## Conditions for safe storage, including any incompatibilities

**Storage** Keep containers tightly closed in a dry, cool and well-ventilated place. Store at room

temperature. Keep from freezing. Keep container closed when not in use. Keep out of the

reach of children.

**Incompatible Products** Acids. Chlorine-based bleaching agents. Oxidizing agents. Metals. Alkalis. Do not mix with

anything but water

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

#### **Control parameters**

#### **Exposure Guidelines**

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Hydrogen chloride 7647-01-0	Ceiling: 2 ppm	(vacated) Ceiling: 5 ppm (vacated) Ceiling: 7 mg/m³ Ceiling: 5 ppm	IDLH: 50 ppm Ceiling: 5 ppm Ceiling: 7 mg/m <sup>3</sup>
Phosphoric acid 7664-38-2	STEL: 3 mg/m³ TWA: 1 mg/m³	Ceiling: 7 mg/m³  TWA: 1 mg/m³  (vacated) TWA: 1 mg/m³  (vacated) STEL: 3 mg/m³	IDLH: 1000 mg/m³ TWA: 1 mg/m³ STEL: 3 mg/m³

#### Appropriate engineering controls

**Engineering Measures** Showers

> Eyewash stations Ventilation systems

## Individual protection measures, such as personal protective equipment

**Eye/Face Protection** 

Flammability Limits in Air

Tightly fitting safety goggles.

**Skin and Body Protection** Rubber boots. Apron. Rubber gloves. Latex gloves

**Respiratory Protection** No protective equipment is needed under normal use conditions. If exposure limits are

exceeded or irritation is experienced, ventilation and evacuation may be required.

**Hygiene Measures** Handle in accordance with good industrial hygiene and safety practice.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

## Information on basic physical and chemical properties

**Physical State** Liquid **Appearance** Clear

Odor **Odor Threshold** No information available No information available

Remarks/ - Method **Property** <u>Values</u> (4 % solution) 1.8

**Melting Point/Range** None known No data available

**Boiling Point/Boiling Range** > 100 °C /> 212 °F None known **Flash Point** No data available None known **Evaporation rate** No data available None known Flammability (solid, gas) No data available None known

upper flammability limit No data available lower flammability limit No data available **Vapor Pressure** No data available None known **Vapor Density** No data available None known **Relative Density** No data available None known **Specific Gravity** None known 1.09 Water Solubility 100% None known Solubility in other solvents No data available None known Partition coefficient: n-octanol/water No data available None known **Autoignition Temperature** No data available None known **Decomposition Temperature** No data available None known **Viscosity** 5 cps None known

Flammable Properties Not flammable

Explosive Properties No data available Oxidizing Properties No data available

**Other information** 

VOC Content (%) No data available

## 10. STABILITY AND REACTIVITY

#### Reactivity

No data available.

## **Chemical stability**

Stable under recommended storage conditions.

## Possibility of hazardous reactions

None under normal processing.

## **Conditions to avoid**

Spills or careless handling. Incompatible products.

#### Incompatible materials

Acids. Chlorine-based bleaching agents. Oxidizing agents. Metals. Alkalis. Do not mix with anything but water

## **Hazardous decomposition products**

None, but may liberate Hydrogen Gas in the presence of metals.

## 11. TOXICOLOGICAL INFORMATION

#### Information on likely routes of exposure

**Product Information** 

**Inhalation** Harmful by inhalation. May cause irritation of respiratory tract.

Eye ContactCauses serious eye damage.Skin ContactCauses severe skin burns.IngestionMay be harmful if swallowed.

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation

Hydrogen chloride	= 700 mg/kg (Rat)	> 5010 mg/kg (Rabbit)	= 3124 ppm (Rat) 1 h
Phosphoric acid	= 1530 mg/kg (Rat)	2730 mg/kg (Rabbit)	850 mg/m <sup>3</sup> (Rat) 1 h

#### Symptoms related to the physical, chemical and toxicological characteristics

**Symptoms** No information available.

## Delayed and immediate effects and also chronic effects from short and long term exposure

**Sensitization No information available. Mutagenic Effects**No information available.

**Carcinogenicity** The table below indicates whether each agency has listed any ingredient as a carcinogen.

Chemical Name	ACGIH	IARC	NTP	OSHA
Hydrogen chloride		Group 3		

IARC: (International Agency for Research on Cancer)
Group 3: Not Classifiable as to its Carcinogenicity to Humans
Reproductive Toxicity
STOT - single exposure
STOT - repeated exposure
Target Organ Effects
Aspiration Hazard
No information available.
Eyes. Skin. Respiratory system.
No information available.

#### Numerical measures of toxicity - Product

The following values are calculated based on chapter 3.1 of the GHS document:

LD50 Oral 2853 mg/kg; Acute toxicity estimate LD50 Dermal 17602 mg/kg; Acute toxicity estimate Inhalation

dust/mist2.9 mg/L; Acute toxicity estimateVapor17 mg/L; Acute toxicity estimate

#### 12. ECOLOGICAL INFORMATION

### **Ecotoxicity**

The environmental impact of this product has not been fully investigated.

Chemical Name	Toxicity to Algae	Toxicity to Fish	Toxicity to Microorganisms	Daphnia Magna (Water Flea)
Hydrogen chloride		LC50 96 h: = 282 mg/L static		
		(Gambusia affinis)		
Phosphoric acid		LC50: 3 - 3.5 mg/L		EC50 12 h: = 4.6 mg/L
•		Gambusia affinis 96 h		(Daphnia magna)

Persistence and Degradability No information available.

**Bioaccumulation** No information available.

# Other Adverse Effects No information available.

Waste Disposal Methods Dispose of in accordance with federal, state, and local regulations

**Contaminated Packaging** Do not re-use empty containers.

Chemical Name	California Hazardous Waste
Phosphoric acid	Corrosive

13. DISPOSAL CONSIDERATIONS

## 14. TRANSPORT INFORMATION

DOT

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**UN-Number** UN1760

**Proper shipping name** Corrosive liquid, n.o.s.

Hazard Class 8
Packing Group ||

Reportable Quantity (RQ) Hydrogen chloride: RQ kg= 13016.05

Description UN1760, Corrosive liquid, n.o.s. (Hydrochloric acid), 8, II, RQ

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Number

TDG

UN1760

**Proper Shipping Name** Corrosive liquid, n.o.s.

Hazard Class 8
Packing Group ||

**Description** UN1760, Corrosive liquid, n.o.s. (Hydrochloric acid), 8, II

UN-Number UN1760

Proper Shipping Name Corrosive liquid, n.o.s.

Hazard Class 8
Packing Group ||

**Description** UN1760, Corrosive liquid, n.o.s. (Hydrochloric acid), 8, II

**ICAO** 

UN1760

**Proper shipping name** Corrosive liquid, n.o.s.

Hazard Class 8
Packing Group ||

**Description** UN1760, Corrosive liquid, n.o.s., 8, II

**IATA** 

UN1760

Proper Shipping Name Corrosive liquid, n.o.s.

Hazard Class 8
Packing Group II
ERG Code 8L

**Description** UN1760, Corrosive liquid, n.o.s. (Hydrochloric acid), 8, II

IMDG/IMO

**UN-Number** UN1760

**Proper Shipping Name** Corrosive liquid, n.o.s.

Hazard Class 8
Packing Group II
EmS No. F-A, S-B

**Description** UN1760, Corrosive liquid, n.o.s. (Hydrochloric acid), 8, II

RID

UN-Number UN1760

Proper Shipping Name Corrosive liquid, n.o.s.

Hazard Class 8
Packing Group || Classification Code C9

**Description** UN1760, Corrosive liquid, n.o.s. (Hydrochloric acid), 8, II

<u>ADR</u>

UN-Number UN1760

**Proper Shipping Name** Corrosive liquid, n.o.s.

Hazard Class 8
Packing Group || Classification Code C9

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Tunnel Restriction Code (E)

**Description** UN1760, Corrosive liquid, n.o.s. (Hydrochloric acid), 8, II, (E)

ADR/RID-Labels 8

<u>ADN</u>

**Proper Shipping Name** Corrosive liquid, n.o.s.

Hazard Class 8
Packing Group II
Classification Code C9
Special Provisions 274

**Description** UN1760, Corrosive liquid, n.o.s. (Hydrochloric acid), 8, II

Limited Quantity 1 L

## 15. REGULATORY INFORMATION

**International Inventories** 

TSCA Complies NDSL Complies

Legend

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

## **U.S. Federal Regulations**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372:

Chemical Name	CAS-No	Weight %	SARA 313 - Threshold
			Values %
Hydrogen chloride	7647-01-0	17.44	1.0

SARA 311/312 Hazard Categories

Acute Health HazardYesChronic Health HazardNoFire HazardNoSudden Release of Pressure HazardNoReactive HazardNo

## Clean Water Act

This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42):

Chemical Name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Hydrogen chloride	5000 lb			Χ
Phosphoric acid	5000 lb			Х

## **CERCLA**

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302):

Chemical Name	Hazardous Substances RQs	Extremely Hazardous Substances	RQ
		RQs	
Hydrogen chloride	5000 lb	5000 lb	RQ 5000 lb final RQ
, -			RQ 2270 kg final RQ
Phosphoric acid	5000 lb		RQ 5000 lb final RQ
•			RQ 2270 kg final RQ

## **U.S. State Regulations**

## **California Proposition 65**

This product does not contain any Proposition 65 chemicals.

## U.S. State Right-to-Know Regulations

"X" designates that the ingredients are listed on the state right to know list.

Chemical Name	New Jersey	Massachusetts	Pennsylvania	Illinois	Rhode Island
Hydrogen chloride	X	X	X	Х	Χ
Phosphoric acid	X	X	X		X

## U.S. EPA Label Information

EPA Pesticide Registration Number Not applicable

16. OTHER INFORMATION							
NFPA_	Health Hazard 3	Flammability 0	Instability 1	Physical and Chemical Hazards -			
HMIS	Health Hazard 3	Flammability 0	Physical Hazard 1	Personal Protection X			

Prepared By Product Stewardship

23 British American Blvd. Latham, NY 12110 1-800-572-6501 18-Apr-2013

Issuing Date18-Apr-2013Revision Date28 Aug 2017

Revision Note 1.

## **General Disclaimer**

The information provided on this SDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

**End of Safety Data Sheet**