



# SAFETY DATA SHEET

Issuing Date 13-May-2014

Revision Date 28-Sep-2015

Revision Number 2

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

### GHS product identifier

Product Name Lime Be Gone

### Other means of identification

Product Code(s) 6630

UN-Number UN3264

Synonyms None

### Recommended use of the chemical and restrictions on use

Recommended Use Lime Scale Remover

Uses advised against No information available

### Supplier's details

#### **Supplier Address**

Sunburst Chemicals, Inc.  
220 W. 86th St.  
Bloomington, MN 55420  
TEL: 952-884-3144

### Emergency telephone number

Emergency Telephone Number 1-866-303-6943

## 2. HAZARDS IDENTIFICATION

### Classification

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

### **PRODUCT AS SOLD**

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


### **PRODUCT AT USE DILUTION**

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

### GHS Label elements, including precautionary statements

### Emergency Overview

**PRODUT AS SOLD**

<b>Signal Word</b>	<b>Danger</b>	
<b>Hazard Statements</b>	<ul style="list-style-type: none"> <li>• Harmful if inhaled</li> <li>• Causes severe skin burns and eye damage</li> <li>• Harmful if ingested.</li> </ul>	
		
<b>Appearance</b>	Green	<b>Physical State</b> Liquid
		<b>Odor</b> Odorless

**Precautionary Statements****Prevention**

- Use personal protective equipment as required
- Do not breathe dust/fume/gas/mist/vapors/spray
- Wash face, hands and any exposed skin thoroughly after handling

**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

**Ingestion**

- IF SWALLOWED: Rinse mouth. DO NOT induce vomiting

**Storage**

- Store locked up

**Disposal**

- Dispose of contents/container to an approved waste disposal plant

**Hazard Not Otherwise Classified (HNOC)**

Not applicable

**Other information**

Toxic to aquatic life. Harmful to aquatic life with long lasting effects

No information available.

**PRODUCT AT USE DILUTION**

**Signal Word** **Danger**

**Hazard Statements**

- Harmful if inhaled
- Causes severe skin burns and eye damage
- Harmful if ingested.

**Emergency Overview**



**Appearance** Green **Physical State** Liquid **Odor** Odorless

**Precautionary Statements**

**Prevention**

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**Hazard Not Otherwise Classified (HNOC)**

Not applicable

**Other information**

Toxic to aquatic life. Harmful to aquatic life with long lasting effects

No information available.

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

**PRODUCT AS SOLD**

Chemical Name	CAS-No	Weight %	Trade secret
Phosphoric acid	7664-38-2	10-30	*
Hydrochloric acid	7647-01-0	1-10	*

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

PRODUCT AT USE DILUTION			
Chemical Name	CAS-No	Weight %	Trade secret
Phosphoric acid	7664-38-2	0.1 - 30	*
Hydrochloric acid	7647-01-0	0.01 - 10	*

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

## 4. FIRST AID MEASURES

### PRODUCT AS SOLD

#### Description of necessary first-aid measures

<b>General Advice</b>	Immediate medical attention is required.
<b>Eye Contact</b>	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Seek immediate medical attention/advice.
<b>Skin Contact</b>	Wash off immediately with soap and plenty of water removing all contaminated clothes and shoes. Wash contaminated clothing before reuse. Seek immediate medical attention/advice.
<b>Inhalation</b>	Move to fresh air. If breathing is difficult, give oxygen. If symptoms persist, call a physician.
<b>Ingestion</b>	Do NOT induce vomiting. Drink plenty of water. Never give anything by mouth to an unconscious person. If symptoms persist, call a physician.

#### Most important symptoms/effects, acute and delayed

**Most Important Symptoms/Effects** Burning sensation, sour taste

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

**Notes to Physician** Treat symptomatically.

### PRODUCT AT USE DILUTION

<b>General Advice</b>	Immediate medical attention is required.
<b>Eye Contact</b>	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Seek immediate medical attention/advice.
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<b>Inhalation</b>	Move to fresh air. If breathing is difficult, give oxygen. If symptoms persist, call a physician.
<b>Ingestion</b>	Do NOT induce vomiting. Drink plenty of water. Never give anything by mouth to an unconscious person. If symptoms persist, call a physician.

#### Most important symptoms/effects, acute and delayed

**Most Important Symptoms/Effects** Burning sensation, sour taste

## 5. FIRE-FIGHTING MEASURES

#### Suitable Extinguishing Media

Water. Carbon dioxide (CO<sub>2</sub>). Dry chemical. Keep containers and surroundings cool with water spray.

**Unsuitable Extinguishing Media** None

#### Specific Hazards Arising from the Chemical

Sealed containers may rupture when heated. Spills produce extremely slippery surfaces.

**Hazardous Combustion Products** No information available.

#### Explosion Data

<b>Sensitivity to Mechanical Impact</b>	None
<b>Sensitivity to Static Discharge</b>	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**

**PRODUCT AS SOLD**

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

**Personal Precautions** If spilled, take caution, as material can cause surfaces to become very slippery. Avoid contact with skin, eyes and clothing. Do not breathe vapors or spray mist. Ensure adequate ventilation. Use personal protective equipment.

**Environmental Precautions**

**Environmental Precautions** Avoid release to the environment. Collect spillage. See Section 12 for additional Ecological Information Dispose of contents/container to an approved waste disposal plant. Prevent product from entering drains. Do not flush into surface water or sanitary sewer system.

**Methods and materials for containment and cleaning up**

**Methods for Containment** Prevent further leakage or spillage if safe to do so.

**Methods for Cleaning Up** Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Sweep up and shovel into suitable containers for disposal. After cleaning, flush away traces with water.

PRODUCT AT USE DILUTION	
<b>Personal Precautions</b>	If spilled, take caution, as material can cause surfaces to become very slippery. Avoid contact with skin, eyes and clothing. Do not breathe vapors or spray mist. Ensure adequate ventilation. Use personal protective equipment.
<b>Environmental Precautions</b>	Avoid release to the environment. Collect spillage. See Section 12 for additional Ecological Information Dispose of contents/container to an approved waste disposal plant. Prevent product from entering drains. Do not flush into surface water or sanitary sewer system.
<b><u>Methods and materials for containment and cleaning up</u></b>	
<b>Methods for Containment</b>	Prevent further leakage or spillage if safe to do so.
<b>Methods for Cleaning Up</b>	Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Sweep up and shovel into suitable containers for disposal. After cleaning, flush away traces with water.

**7. HANDLING AND STORAGE**

**PRODUCT AS SOLD**

**Precautions for safe handling**

**Handling** Handle in accordance with good industrial hygiene and safety practice. Ensure adequate ventilation. Avoid contact with skin, eyes and clothing. Do not breathe vapors or spray mist. Do not eat, drink or smoke when using this product.

**Conditions for safe storage, including any incompatibilities**

**Storage** Keep container tightly closed. Keep container closed when not in use. Keep out of the reach of children.

**Incompatible Products** Chlorine-based bleaching agents.

<b>PRODUCT AT USE DILUTION</b>	
<b>Handling</b>	Handle in accordance with good industrial hygiene and safety practice. Ensure adequate ventilation. Avoid contact with skin, eyes and clothing. Do not breathe vapors or spray mist. Do not eat, drink or smoke when using this product.
<b>Storage</b>	Keep container tightly closed. Keep container closed when not in use. Keep out of the reach of children.
<b>Incompatible Products</b>	Chlorine-based bleaching agents.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### Control parameters

#### Exposure Guidelines

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

### Appropriate engineering controls

**Engineering Measures**                      Eyewash stations

### Individual protection measures, such as personal protective equipment

**Eye/Face Protection**                      Tightly fitting safety goggles.  
**Skin and Body Protection**                Rubber gloves. Rubber apron.  
**Respiratory Protection**                    If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn.

**Hygiene Measures**                          Wash thoroughly after handling.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Information on basic physical and chemical properties

<b>Physical State</b>	Liquid	<b>Appearance</b>	Green
<b>Odor</b>	Odorless	<b>Odor Threshold</b>	No information available

<u>Property</u>	<u>Values as Sold</u>	<u>Values for Use Dilution</u>
pH	0.5 – 1.0	0.5 – 2.0
Melting Point/Range	No data available	
Boiling Point/Boiling Range	100 °C / 212 °F	212 °F
Flash Point	None	
Evaporation rate	No data available	
Flammability (solid, gas)	No data available	
Flammability Limits in Air		
upper flammability limit	No data available	
lower flammability limit	No data available	
Vapor Pressure	No data available	
Vapor Density	No data available	
Relative Density	No data available	
Specific Gravity	No data available	
Water Solubility	Complete	
Solubility in other solvents	No data available	
Partition coefficient: n-octanol/water	No data available	
Autoignition Temperature	No data available	
Decomposition Temperature	No data available	
Viscosity	No data available	

<b>Flammable Properties</b>	Not flammable
<b>Explosive Properties</b>	No data available
<b>Oxidizing Properties</b>	No data available
<b><u>Other information</u></b>	
<b>VOC Content (%)</b>	0%

## 10. STABILITY AND REACTIVITY

### **Reactivity**

No data available.

### **Chemical stability**

Stable under recommended storage conditions.

### **Possibility of hazardous reactions**

Acidic material, do not mix with highly alkaline products or solution

### **Conditions to avoid**

Mixing with chlorinated products.

### **Incompatible materials**

Chlorine-based bleaching agents.

### **Hazardous decomposition products**

Chlorine gas if mixed with materials containing chlorine bleach.

## 11. TOXICOLOGICAL INFORMATION

### **Information on likely routes of exposure**

#### **PRODUCT AS SOLD**

##### **Product Information**

<b>Inhalation</b>	Avoid breathing vapors or mists. May be harmful by inhalation.
<b>Eye Contact</b>	Corrosive to the eyes and may cause severe damage including blindness.
<b>Skin Contact</b>	Skin contact with corrosive substances can cause skin burns.
<b>Ingestion</b>	Harmful if swallowed. Gastrointestinal discomfort.

### **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**

<b>Sensitization</b>	No information available.
<b>Mutagenic Effects</b>	No information available.
<b>Carcinogenicity</b>	Contains no carcinogenic ingredients.

#### **PRODUCT AT USE DILUTION**

<b>Inhalation</b>	Avoid breathing vapors or mists. May be harmful by inhalation.
<b>Eye Contact</b>	Corrosive to the eyes and may cause severe damage including blindness.

<b>Skin Contact</b>	Skin contact with corrosive substances can cause skin burns.
<b>Ingestion</b>	Harmful if swallowed. Gastrointestinal discomfort.
<b>Symptoms related to the physical, chemical and toxicological characteristics</b>	
<b>Symptoms</b>	No information available.
<b>Delayed and immediate effects and also chronic effects from short and long term exposure</b>	
<b>Sensitization</b>	No information available.
<b>Mutagenic Effects</b>	No information available.
<b>Carcinogenicity</b>	Contains no carcinogenic ingredients.
<b>Reproductive Toxicity</b>	No information available.
<b>STOT - single exposure</b>	No information available.
<b>STOT - repeated exposure</b>	No information available.
<b>Aspiration Hazard</b>	No information available.
<b>Numerical measures of toxicity - Product</b>	
<i>The following values are calculated based on chapter 3.1 of the GHS document:</i>	
<b>LD50 Oral</b>	No information available.
<b>LD50 Dermal</b>	No information available.

**12. ECOLOGICAL INFORMATION**

**Ecotoxicity**

Toxic to aquatic life. Harmful to aquatic life with long lasting effects.

Chemical Name	Toxicity to Algae	Toxicity to Fish	Toxicity to Microorganisms	Daphnia Magna (Water Flea)
Phosphoric acid		LC50: 3 - 3.5 mg/L Gambusia affinis 96 h		EC50 12 h: = 4.6 mg/L (Daphnia magna)
Hydrochloric acid	-	LC50 96 h: = 282 mg/L (Gambusia affinis)	-	LC80 72h: = 56 mg/L (Daphnia magna)

**Persistence and Degradability** No information available.  
**Bioaccumulation** No information available.

**Other Adverse Effects**

No information available.

**13. DISPOSAL CONSIDERATIONS**

**PRODUCT AS SOLD**

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

**Contaminated Packaging** Dispose of in accordance with federal, state, and local regulations.

Chemical Name	California Hazardous Waste
Phosphoric acid	Corrosive
Hydrochloric acid	Corrosive

**PRODUCT AT USE DILUTION**

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

**Contaminated Packaging** Dispose of in accordance with federal, state, and local regulations.

Chemical Name	California Hazardous Waste
Phosphoric acid	Corrosive
Hydrochloric acid	Corrosive

**14. TRANSPORT INFORMATION**



**DOT**

<b>UN-Number</b>	UN3264
<b>Proper shipping name</b>	Corrosive liquid, acidic, inorganic, n.o.s.
<b>Hazard Class</b>	8
<b>Packing Group</b>	II
<b>Reportable Quantity (RQ)</b>	Phosphoric acid: RQ= 500 lbs.
<b>Description</b>	UN3264, Corrosive liquid, acidic, inorganic, n.o.s. (Phosphoric acid), 8, II, RQ
<b>Emergency Response Guide Number</b>	154

**15. REGULATORY INFORMATION****International Inventories**

<b>TSCA</b>	Complies
<b>DSL/NDSC</b>	Complies

**Legend**

**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory  
**DSL/NDSC** - Canadian Domestic Substances Lists / Non Domestic Substances Lists

**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 %
Hydrochloric acid	7647-01-0	3-7	1.0

**SARA 311/312 Hazard Categories**

<b>Acute Health Hazard</b>	Yes
<b>Chronic Health Hazard</b>	No
<b>Fire Hazard</b>	No
<b>Sudden Release of Pressure Hazard</b>	No
<b>Reactive Hazard</b>	No

**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
Phosphoric acid	5000 lb	-	-	X
Hydrochloric acid	5000 lb	-	-	X

**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 RQs	RQ
Phosphoric acid	5000 lb	-	RQ 5000 lb final RQ RQ 2270 kg final RQ
Hydrochloric acid	5000 lb	-	

**U.S. State Regulations****California Proposition 65**

This product does not contain any Proposition 65 chemicals.

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

Chemical Name	New Jersey	Massachusetts	Pennsylvania	Illinois	Rhode Island
Phosphoric acid	X	X	X		X
Hydrochloric acid	X	X	X	X	X

**U.S. EPA Label Information**

EPA Pesticide Registration Number Not applicable

**16. OTHER INFORMATION**

<b><u>NFPA</u></b>	Health Hazard	3	Flammability	0	Instability	0	Physical and Chemical Hazards	-
<b><u>HMIS</u></b>	Health Hazard	3	Flammability	0	Physical Hazard	0	Personal Protection	C

Prepared By Sunburst Chemicals  
220 West 86<sup>th</sup> Street  
Bloomington, MN 55420  
952-884-3144

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Revision Note Update DOT Information

**General Disclaimer**

The information provided on this MSDS 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**