

SAFETY DATA SHEET

Issuing Date 26-Aug-2014 Revision Date 22-Jan-2016 Revision Number 1

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

GHS product identifier

Product Name Lime Remover Plus

Other means of identification

Product Code 6622

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

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 Eve Damage/Eve Irritation	Category 1			

GHS Label elements, including precautionary statements

Emergency Overview

PRODUT AS SOLD

Signal Word Danger

Hazard Statements

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



Appearance Green

Physical State Liquid

Odor 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

PRODUCT AT USE DILUTION

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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

3. COMPOSITION/INFORMATION ON INGREDIENTS

PRODUCT AS SOLD

Chemical Name	CAS-No	Weight %	Trade secret
Phosphoric acid	7664-38-2	10-30	*
Nitric acid	7697-32-2	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	*		
Nitric acid	7697-32-2	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

General Advice Immediate medical attention is required.

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

immediate medical attention/advice.

Skin Contact 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.

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

Ingestion 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.

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

Ingestion 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 Burning sensation, sour taste

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

Water. Carbon dioxide (CO₂). 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

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

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.

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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.

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Incompatible Products Chlorine-based bleaching agents.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Control parameters

Exposure Guidelines

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Phosphoric acid	STEL: 3 mg/m ³	TWA: 1 mg/m ³	IDLH: 1000 mg/m ³
7664-38-2	TWA: 1 mg/m ³	(vacated) TWA: 1 mg/m ³	TWA: 1 mg/m ³
		(vacated) STEL: 3 mg/m ³	STEL: 3 mg/m ³
Nitric acid	5 mg/m³ ceiling	5 mg/m³ ceiling	IDLH: 10 ppm
7697-37-2			5 mg/m³ ceiling

Appropriate engineering controls

Engineering Measures Eyewash stations

Individual protection measures, such as personal protective equipment

Eye/Face ProtectionSkin and Body Protection

Tightly fitting safety goggles.
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

212 °F

Information on basic physical and chemical properties

Physical State Liquid Appearance Green

Odor Odorless Odor Threshold No information available

PropertyValues as SoldValues for Use DilutionpH0.5 - 1.00.5 - 2.0

pH 0.5 - 1.0

Melting Point/Range No data available

Boiling Point/Boiling Range 100 °C / 212 °F

Flash Point None

Evaporation rate No data available Flammability (solid, gas) No data available

Flammability Limits in Air

upper flammability limit
lower flammability limit
Vapor Pressure
Vapor Density
Relative Density
Specific Gravity
Water Solubility
No data available
No data available
No data available
No data available
Complete

Solubility in other solvents
Partition coefficient: n-octanol/waterNo data available
Autoignition Temperature
Decomposition Temperature
Viscosity
No data available
No data available
No data available

Flammable Properties Not flammable

Explosive Properties No data available Oxidizing Properties No data available

Other information

VOC Content (%) 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

PRODUCT AS SOLD

Information on likely routes of exposure

Product Information

Inhalation Avoid breathing vapors or mists. May be harmful by inhalation.

Eye Contact Corrosive to the eyes and may cause severe damage including blindness.

Skin Contact Skin contact with corrosive substances can cause skin burns.

Ingestion 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

Sensitization No information available.

Mutagenic Effects No information available.

Carcinogenicity Contains no carcinogenic ingredients.

PRODUCT AT USE DILUTION

Inhalation Avoid breathing vapors or mists. May be harmful by inhalation.

Eye Contact Corrosive to the eyes and may cause severe damage including blindness.

Skin Contact Skin contact with corrosive substances can cause skin burns.

Ingestion Harmful if swallowed. Gastrointestinal discomfort.

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)
Nitric acid	-	-	-	LC80 72h: = 56 mg/L (Daphnia magna)

Persistence and Degradability

Bioaccumulation

No information available. No information available.

Other Adverse Effects

No information available.

13. DISPOSAL CONSIDERATIONS

PRODUCT AS SOLD

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

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
Nitric acid	Corrosive

14. TRANSPORT INFORMATION

DOT

UN-Number UN3264

Proper shipping name Corrosive liquid, acidic, inorganic, n.o.s.

Hazard Class
Packing Group

Reportable Quantity (RQ) Phosphoric acid: RQ= 500 lbs.

Description UN3264, Corrosive liquid, acidic, inorganic, n.o.s. (Phosphoric acid), 8, II, RQ

Emergency Response Guide

Number

15. REGULATORY INFORMATION

International Inventories

TSCA Complies DSL/NDSC 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	CAS-No Weight %	
Nitric acid	7697-37-2	3-7	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
Phosphoric acid	5000 lb.	-	-	Х
Nitric acid	1000 lb.	-	-	Х

CFRCI A

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	
Phosphoric acid	5000 lb.	-	RQ 5000 lb final RQ
•			RQ 2270 kg final RQ
Nitric acid	1000 lb.	-	

U.S. State Regulations

California Proposition 65

This product does not contain any Proposition 65 chemicals.

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U.S. State Right-to-Know Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania	Illinois	Minnesota
Phosphoric acid	X	X	X		X
Nitric acid	X	X	X	Х	Х

U.S. EPA Label Information

EPA Pesticide Registration Number Not applicable

16. OTHER INFORMATION

NFPA Health Hazard 3 Flammability 0 Instability 0 Physical and Chemical

Hazards -

HMIS Health Hazard 3 Flammability 0 Physical Hazard 0 Personal Protection C

Prepared By Sunburst Chemicals

220 West 86th Street Bloomington, MN 55420

952-884-3144

Issuing Date 26-Aug-2014 **Revision Date** 22-Jan-2016

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
