

Issue Date: 08-Aug-2011

	1. IDENTIFICATION	
Product Identifier		
Product Name	Lime-X	
Other Means of Identification		
Product Code	345400	
Recommended use of the Chemic	al and Restrictions on Use	
Recommended Use	Delimer concentrate. For industrial use.	
Details of the Supplier of the Safe	ty Data Sheet	
Midlab, Inc.		
140 Private Brand Way		
Athens, TN 37303		
Emergency Telephone Number		
Company Phone Number	Phone: 1-423-337-3180	
Emergency Telephone (24 hr)	INFOTRAC 1-352-323-3500 (International)	

1-800-535-5053 (North America)

Revision Date: 20-Jan-2014

2. HAZARDS IDENTIFICATION

Appearance Green

Physical State Liquid

Odor Characteristic

Version 1.0

Classification

Acute toxicity - Inhalation (Dusts/Mists)	Category 3
Skin corrosion/irritation	Category 1 Sub-category B
Serious eye damage/eye irritation	Category 1

## Hazards Not Otherwise Classified (HNOC)

May be harmful if swallowed.

#### Signal Word Danger

## Hazard Statements

Toxic if inhaled. Causes severe skin burns and eye damage.

## **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.

## Precautionary Statements - Response

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.

IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower

Wash contaminated clothing before reuse

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

Immediately call a poison center or doctor/physician

IF SWALLOWED: rinse mouth. Do NOT induce vomiting



### **Precautionary Statements - Storage**

Store in a well-ventilated place. Keep container tightly closed. Store locked up.

## **Precautionary Statements - Disposal**

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

#### **Other Hazards**

Harmful to aquatic life with long lasting effects.

## **3. COMPOSITION/INFORMATION ON INGREDIENTS**

Chemical Name	CAS No	Weight-%
Water	7732-18-5	60-100
Phosphoric Acid	7664-38-2	15-40
Hydrochloric Acid	7647-01-0	1-5

\*\*If Chemical Name/CAS No is "proprietary" and/or Weight-% is listed as a range, the specific chemical identity and/or percentage of composition has been withheld as a trade secret.\*\*

## **4. FIRST-AID MEASURES**

#### First Aid Measures

Eye Contact	Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Seek immediate medical attention/advice. If possible, continue to flush eyes with running water until medical attention is received.
Skin Contact	Wash off immediately with plenty of water for at least 15 minutes. Take off contaminated clothing. Wash contaminated clothing before reuse.
Inhalation	Remove to fresh air. Get medical attention immediately.
Ingestion	Rinse mouth. Drink large amounts of water. Do not induce vomiting. Never give anything by mouth to an unconscious person. Seek medical attention immediately.

## Most Important Symptoms and Effects

 Symptoms
 Corrosive to eyes. Corrosive and irritating to upper respiratory tract. Prolonged contact may even cause severe skin irritation or mild burn.

#### Indication of any Immediate Medical Attention and Special Treatment Needed

Notes to Physician

Treat symptomatically.

## **5. FIRE-FIGHTING MEASURES**

#### Suitable Extinguishing Media

Water spray (fog). Carbon dioxide (CO2). Dry chemical. Foam.

#### Unsuitable Extinguishing Media

Not determined.

## Specific Hazards Arising from the Chemical

None known.

## 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	Use personal protection recommended in Section 8.		
Environmental Precautions	Avoid release to the environment.		
Methods and Material for Containm	ent and Cleaning Up		
Methods for Containment	Prevent further leakage or spillage if safe to do so.		
Methods for Clean-Up	Collect in a clean, dry waste container for disposal. Dispose of in accordance with federal, state and local regulations.		
7. HANDLING AND STORAGE			
Precautions for Safe Handling			
Advice on Safe Handling	Wash thoroughly after handling. Use personal protection recommended in Section 8. Do not breathe dust/fume/gas/mist/vapors/spray. Use only in well-ventilated areas. Avoid contact with skin and eyes.		
Conditions for Safe Storage, including any Incompatibilities			
Storage Conditions	Keep containers tightly closed in a dry, cool and well-ventilated place. Keep locked up and out of reach of children. Keep from freezing.		
Incompatible Materials	Alkalis. Oxidizing agents. Bleach.		

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

## 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	Ceiling: 2 ppm	(vacated) Ceiling: 5 ppm (vacated) Ceiling: 7 mg/m <sup>3</sup> Ceiling: 5 ppm Ceiling: 7 mg/m <sup>3</sup>	IDLH: 50 ppm Ceiling: 5 ppm Ceiling: 7 mg/m <sup>3</sup>

## Appropriate Engineering Controls

Engineering Controls	General ventilation sufficient.
Individual Protection Measures, su	ch as Personal Protective Equipment
Eye/Face Protection	Splash goggles or safety glasses.
Skin and Body Protection	Rubber, Nitrile, PVC, or other chemically resistant skin protection to prevent contact.
Respiratory Protection	Ensure adequate ventilation, especially in confined areas.
General Hygiene Considerations	Handle in accordance with good industrial hygiene and safety practice.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

## Information on Basic Physical and Chemical Properties

Physical State Appearance Color Liquid Clear Green

Odor Odor Threshold Characteristic Not determined

Property pH Melting Point/Freezing Point Boiling Point/Boiling Range Flash Point Evaporation Rate Flammability (Solid, Gas) Upper Flammability Limits	<u>Values</u> <1.0 ~ 0 °C / ~32 °F ~ 100 °C / ~212 °F Not applicable Not determined n/a-liquid Not determined	<u>Remarks • Method</u>
Lower Flammability Limit Vapor Pressure	Not determined	
Vapor Density Specific Gravity	Not determined 1.18	
Water Solubility	Completely soluble	@ 25 °C (77 °F)
Solubility in other solvents Partition Coefficient	Not determined Not determined	
Auto-ignition Temperature Decomposition Temperature	Not determined Not determined	
Kinematic Viscosity Dynamic Viscosity	Not determined Not determined	
Explosive Properties Oxidizing Properties	Not determined Not determined	

## **10. STABILITY AND REACTIVITY**

## Reactivity

Not reactive under normal conditions.

## Chemical Stability

Stable under recommended storage conditions.

## Possibility of Hazardous Reactions

None under normal processing.

#### **Conditions to Avoid**

Keep out of reach of children. Keep from freezing.

#### **Incompatible Materials**

Alkalis. Oxidizing agents. Bleach.

## **Hazardous Decomposition Products**

When exposed to fire, produces normal products of combustion.

## **11. TOXICOLOGICAL INFORMATION**

## Information on Likely Routes of Exposure

#### **Product Information**

- Skin Contact Causes severe skin burns.
- Inhalation Toxic if inhaled.
- Ingestion May be harmful if swallowed.

#### Component Information

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Phosphoric Acid 7664-38-2	= 1530 mg/kg(Rat)	= 2730 mg/kg (Rabbit)	> 850 mg/m³(Rat)1 h
Hydrochloric Acid 7647-01-0	= 700 mg/kg(Rat)	> 5010 mg/kg (Rabbit)	= 3124 ppm (Rat)1 h

## Information on Physical, Chemical and Toxicological Effects

#### Symptoms

Please see section 4 of this SDS for symptoms.

## Delayed and Immediate Effects as well as Chronic Effects from Short and Long-Term Exposure

Carcinogenicity

Not classifiable as a human carcinogen.

Chemical Name	ACGIH	IARC	NTP	OSHA
Hydrochloric Acid 7647-01-0		Group 3		

#### Legend

IARC (International Agency for Research on Cancer)

Group 3 IARC components are "not classifiable as human carcinogens"

**Chronic Toxicity** 

Chronic exposure may cause liver, kidney and/or blood disorders.

## Numerical Measures of Toxicity

Not determined

## **12. ECOLOGICAL INFORMATION**

#### Ecotoxicity

Harmful to aquatic life with long lasting effects.

Chemical Name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Phosphoric Acid 7664-38-2	-	3 - 3.5: 96 h Gambusia affinis mg/L LC50	-	4.6: 12 h Daphnia magna mg/L EC50
Hydrochloric Acid 7647-01-0	-	282: 96 h Gambusia affinis mg/L LC50 static	-	-

## Persistence/Degradability

Not determined.

## **Bioaccumulation**

Not determined.

## <u>Mobility</u>

Not determined

## Other Adverse Effects

Not determined

## **13. DISPOSAL CONSIDERATIONS**

Waste Treatment Methods	
Disposal of Wastes	Disposal should be in accordance with applicable regional, national and local laws and regulations.
Contaminated Packaging	Disposal should be in accordance with applicable regional, national and local laws and regulations.

## California Hazardous Waste Status

Chemical Name	California Hazardous Waste Status
Phosphoric Acid 7664-38-2	Corrosive

## **14. TRANSPORT INFORMATION**

# Note

DOT

Please see current shipping paper for most up to date shipping information, including exemptions and special circumstances.

UN3264, Corrosive Liquid, Acidic, Inorganic, NOS (Containing Phosphoric Acid and Hydrochloric Acid), 8, PG II

<u>IATA</u>

IMDG Marine Pollutant

This material may meet the definition of a marine pollutant

## **15. REGULATORY INFORMATION**

## International Inventories

Not determined

## US Federal Regulations

#### CERCLA

Chemical Name	Hazardous Substances RQs	CERCLA/SARA RQ	Reportable Quantity (RQ)
Phosphoric Acid 7664-38-2	5000 lb		RQ 5000 lb final RQ RQ 2270 kg final RQ
Hydrochloric Acid 7647-01-0	5000 lb	5000 lb	RQ 5000 lb final RQ RQ 2270 kg final RQ

## SARA 311/312 Hazard Categories

Acute Health Hazard	Yes
Chronic Health Hazard	Yes
Reactive Hazard	Yes

#### SARA 313

Chemical Name	CAS No	Weight-%	SARA 313 - Threshold Values %
Hydrochloric Acid	7647-01-0	1-5	1.0

#### CWA (Clean Water Act)

Component	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Phosphoric Acid 7664-38-2	5000 lb			Х
Hydrochloric Acid 7647-01-0	5000 lb			Х

#### US State Regulations

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

Chemical Name	State List
Phosphoric Acid 7664-38-2	MA, NJ, PA
Hydrochloric Acid 7647-01-0	MA, NJ, PA

AZ – Arizona Ambient Air Quality Guidelines

CT - Connecticut Hazardous Air Pollutants

CA - California Director's List of Hazardous Substances

CAP65 – California Prop 65

FL – Florida Substances List

ID – Idaho Non-Carcinogen Toxic Air Pollutants

IL – Illinois Toxic Air Contaminate- Carcinogenic

MA – Massachusetts Right to Know List

MN – Minnesota Hazardous Substances List

NJ – New Jersey Right to Know List

PA – Pennsylvania Right to Know List

RI – Rhode Island Hazardous Substances List

## **16. OTHER INFORMATION**

<u>NFPA</u> HMIS	Health Hazards Not determined Health Hazards 3	Flammability Not determined Flammability 0	<b>Instability</b> Not determined <b>Physical Hazards</b> 0	Special Hazards Not determined Personal Protection Not determined
Issue Date:	08-Aug-	2011		

Disclaimer

**Revision Date:** 

**Revision Note:** 

The information provided in this Safety Data Sheet 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 guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered 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 materials or in any process, unless specified in the text.

Keep Out of Reach of Children. For Industrial and Institutional Use Only.

22-Jan-2014

New format Version 1.0

\*Denotes changes from last version.

**End of Safety Data Sheet**