

# **Safety Data Sheet**

**Issue Date:** 08-Aug-2011 **Revision Date:** 27-Feb-2014 **Version** 1.0

# 1. IDENTIFICATION

**Product Identifier** 

Product Name Lime Remover

Other Means of Identification

Product Code 271500

Recommended Use of the Chemical and Restrictions on Use

**Recommended Use** Lime remover. For industrial use.

**Details of the Supplier of the Safety 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)

# 2. HAZARDS IDENTIFICATION

Appearance White Physical State Powder Odor None

## Classification

Skin Corrosion/Irritation	Category 2
Serious Eve Damage/Eve Irritation	Category 2 Sub-category A

# Signal Word

# Warning

#### **Hazard Statements**

Causes skin irritation.

Causes serious eye irritation.

# <u>Precautionary Statements - Prevention</u>

Wash face, hands and any exposed skin thoroughly after handling.

Wear protective gloves and 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 If eye irritation persists: Get medical advice/attention.

IF ON SKIN: Wash with plenty of soap and water. Take off contaminated clothing and wash before reuse. If skin irritation persists: Get medical advice/attention.

Specific treatment: Remove from exposure and treat symptoms.

## **Precautionary Statements - Storage**

No other specific measures identified.

## **Precautionary Statements - Disposal**

No other specific measures identified.

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

None known.



#### **Unknown Acute Toxicity**

None known.

# 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No	Weight-%
Citric Acid	77-92-9	60-100
Monosodium Phosphate	7558-80-7	10-30

<sup>\*\*</sup>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**

Exposure may cause irritation and redness. Rinse immediately with plenty of water, also under

the eyelids, for at least 15 minutes. If eye irritation persists: Get medical advice/attention.

**Skin Contact** Prolonged or repeated exposure may dry skin and cause irritation. Flush skin with water for 15

minutes. If irritation or rash persists, get medical attention.

**Inhalation** If breathing becomes difficult, remove victim to fresh air. Call a physician if you feel unwell.

Ingestion Rinse mouth and drink plenty of water. Do NOT induce vomiting unless directed to do so by a

qualified medical personnel. Never give anything by mouth to an unconscious person. If any

discomfort persists, obtain medical attention.

# **Most Important Symptoms and Effects**

Symptoms Contact with eyes may cause irritation and redness. Prolonged or repeated contact may dry skin

and cause irritation. Repeated contact may cause allergic reactions in very susceptible persons.

## 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**

Oxides of sodium and phosphorus.

#### **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 Containment and Cleaning Up

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**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. Use a water rinse for final clean up.

## 7. HANDLING AND STORAGE

## **Precautions for Safe Handling**

Advice on Safe Handling Wash thoroughly after handling. Use personal protection recommended in Section 8. Avoid

breathing dust or fume. Use only in well-ventilated areas. Avoid contact with eyes and skin.

Handle in accordance with good industrial hygiene and safety practice.

#### Conditions for Safe Storage, Including Any Incompatibilities

Storage Conditions Keep containers tightly closed in a dry, cool and well-ventilated place. Keep out of the reach of

children. Keep from freezing.

Incompatible Materials None known.

# 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Exposure Guidelines

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Citric Acid 77-92-9	5mg/m³	5mg/m³	-
Monosodium Phosphate 7758-80-7	TWA: 10mg/m³ (inhalable particles) TWA: 3 mg/m³ (respirable particles)	TWA: 15 mg/m³ (Total dust) TWA: 5 mg/m³ (respirable fraction)	-

# **Appropriate Engineering Controls**

Engineering Controls General ventilation sufficient.

#### Individual Protection Measures, such as Personal Protective Equipment

**Eye/Face Protection** Eye protection should be worn when splashing may occur.

**Skin and Body Protection** Wear suitable gloves when handling this product.

**Respiratory Protection**No protective equipment is needed under normal use conditions.

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

## 9. PHYSICAL AND CHEMICAL PROPERTIES

(1% solution)

#### Information on Basic Physical and Chemical Properties

Physical State Powder

Appearance White Odor None

Color White Odor Threshold Not determined

<u>Property</u> <u>Values</u> <u>Remarks • Method</u>

pH (1%)

Melting Point/Freezing Point

Not determined

Boiling Point/Boiling Range Not determined

Flash Point None (not flammable) Tag Open Cup

Evaporation Rate
Flammability (Solid, Gas)
Upper Flammability Limits
Not determined
Not determined
Not determined
Not determined

Vapor PressureNot determinedVapor DensityNot determinedSpecific GravityNot Applicable

Water Solubility Moderate in water @ 25°C

Solubility in other solvents Not determined **Partition Coefficient** Not determined **Auto-ignition Temperature** Not determined **Decomposition Temperature** Not determined **Kinematic Viscosity** Not determined **Dynamic Viscosity** Not determined **Explosive Properties** Not determined **Oxidizing Properties** 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.

# Hazardous Polymerization

Hazardous polymerization does not occur.

## **Conditions to Avoid**

Keep out of reach of children. Avoid concentrated acids, bases, heavy metal salts, flammable materials, combustible materials, and moisture.

## **Incompatible Materials**

Oxidizing agents, bases, reducing agents, and nitrates

# **Hazardous Decomposition Products**

Thermal decomposition may result in the formation of oxides of carbon, sodium and phosphorus.

# 11. TOXICOLOGICAL INFORMATION

# Information on Likely Routes of Exposure

# **Product Information**

**Eye Contact** Causes eye irritation.

**Skin Contact** May cause skin irritation or rash.

**Inhalation** Avoid breathing dust.

**Ingestion** May be harmful if swallowed.

**Component Information** 

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Citric Acid 77-92-9	> 5000mg/kg (Rat)	> 2000mg/kg (Rat)	-
Monosodium Phosphate 7758-80-7	= 8290 mg/kg (Rat)	-	-

# 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

This product does not contain any carcinogens or potential carcinogens as listed by OSHA, IARC

or NTP.

**Numerical Measures of Toxicity** 

Not determined

Unknown Acute Toxicity None known.

# 12. ECOLOGICAL INFORMATION

#### **Ecotoxicity**

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

Chemical Name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Citric Acid 77-92-9	-	440-706mg/L (Goldfish 96hr)	-	-

#### Persistence/Degradability

Not determined.

#### **Bioaccumulation**

Not determined.

# **Mobility**

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.

# 14. TRANSPORT INFORMATION

**Note** Please see current shipping paper for most up to date shipping information, including exemptions

and special circumstances.

**DOT** Not regulated

IATA Not regulated

<u>IMDG</u> Not regulated

# 15. REGULATORY INFORMATION

# **International Inventories**

Not determined

# US Federal Regulations

# **CERCLA**

None listed.

# SARA 311/312 Hazard Categories

Acute Health Hazard Yes

## **SARA 313**

Not determined

# **US State Regulations**

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

The following ingredients appear on various state right to know lists and/or California's Proposition 65 list:

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Chemical Name	State List	
Citric Acid 77-92-9	NJ, PA	

AZ- Arizona Ambient Air Quality Guidelines

CT- Connecticut Hazardous Air Pollutants

CA- California Director's List of Hazardous Substances

CAP65- California Prop65 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**

NFPA_	Health Hazards	Flammability	Instability	Special Hazards
<u>HMIS</u>	Not determined Health Hazards	Not determined Flammability	Not determined Physical Hazards	Not determined Personal Protection
	2	0	0	Not determined

 Issue Date:
 08-Aug-2011

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 27-Feb-2014

Revision Note: New format Version 1.0

#### **Disclaimer**

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.

**End of Safety Data Sheet** 

<sup>\*</sup>Denotes changes from last version.