# 9/28/16

#### **SAFETY DATA SHEET**



Lime SOL Lime Deposit
Remover

Date Issued: May 2015

**Supersedes:** September 2013

#### SECTION 1 - IDENTIFICATION

**Product Name:** 

Lime - Sol

General Use:

Lime Deposit Remover

Manufacturer Name:

Texas Correctional Industries

Roach Soap & Detergent Plant

15845 FM 164 Childress, TX 79201 **Emergency Telephone Numbers** 

Galveston Texas Poison Control: 1-800-764-7661

Roach Soap & Detergent Plant Lab: 940-937-6364 EXT. 7392

SDS available at: www.tci.tdcj.texas.gov Monday thru Thursday: 5:30 AM – 3:30 PM

#### **SECTION 2 - HAZARD IDENTIFICATION**







Primary Route of Exposure

: Eyes, Skin, Oral or Inhalation

Signs and Symptoms of Over Exposure (acute)

Eyes

CAUTION: very corrosive; may cause irreversible eye damage. Do not exposure or allow contact with your

eyes.

Skin

Can cause epidermal burns, redness, and rash.

Ingestion

May cause gastrointestinal irritation or burns to the mouth and throat. Serious action necessary- Seek

medical help immediately.

Inhalation

May cause irritation to the respiratory tract, and cause tissue damage or lung injury. Do not breathe vapors

or any gases released from reactions with other compounds.

Signs and Symptoms of Over Exposure (chronic)

: Eye and skin irritation; itching or burning.

Medical condition aggravated by over exposure

: Not known

Carcinogen or suspect of carcinogen ingredients

: None

# SECTION 3 - COMPOSITION/INFORMATION ON INGREDIENTS

	ACGIH/OSHA (TWA)				
Chemical/Common Name	CAS No.	PERCENT	TLV	PEL	WHMIS
Hydroxyacetic acid	<i>7</i> 9-1 <i>4</i> -1	4 - 7	N/D	N/D	1%
Phosphoric acid*	7664-38-2	41 - 43	1 mg/m <sup>3</sup>	N/D	1%

N/A= Not Applicable

N/D = Not Determined

WHMIS – minimum amount necessary in a mixture to trigger reporting: 1% (hazardous chemical); 0.1% (extremely hazardous chemical)

### SECTION 4 - FIRST AID MEASURES

Eyes

: Flush with plenty of water for at least 15 min. Seek medical attention immediately. Contains corrosive acids.

Skin : Flush with a large amount of water for 15 – 20 minutes. Wash skin area with soap and water if any residual

<sup>\*</sup>Listed SARA Title III Section 313; 29 CFR 1910.1000 Subpart Z

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persists. Remove contaminated clothing and seek medical attention.

Ingestion Rinse mouth thoroughly. Drink plenty of water. Do not induce vomiting unless directed by physician.

Inhalation Move person to fresh air. Give artificial resuscitation (CPR) if person is not breathing.

## SECTION 5 - FIRE FIGHTING MEASURES

Flammable Limit

N/A

Physical Hazard

Corrosive

Extinguishing Media

Water, Foam, Dry Chemicals, or Carbon Dioxide

Fire Extinguishing Procedure

Use of respiratory equipment is recommended in enclosed areas

Fire and Explosive Hazard

None

#### SECTION 6 - ACCIDENTAL RELEASE MEASURES

Steps to be taken if released or spilled

: Collect and contain all materials practical for salvage or disposal. Rinse residue with

copious amounts of water.

# SECTION 7 - HANDLING AND STORAGE

Store in a cool, dry ventilated area. IMPORTANT! Product use is not recommended until this Material Safety Data Sheet has been read and understood by the end user.

Note: Product should be used as directed on the label. No warranty is implied expressly or otherwise regarding the accuracy of the information in the product's suitability for the consumer's use and the outcome of its use. The technical accuracy of the information submitted herein is based on the data submitted to TCI by the manufacturers for the materials used in this finished product.

# SECTION 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION

Respiratory Protection

None required with normal use

Ventilation Requirement

: Local exhaust. Maintain adequate ventilation

Protective Gloves

Yes. Rubber or neoprene

Eye Protection

: Use chemical goggles; Avoid splashing this liquid

Do not allow eating, drinking, or smoking in the work area during its use.

# SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Specific Gravity (water = 1)

1.020

Solubility in Water

Complete

pН

< 2.0

**Boiling Point** 

> 200° F

Appearance and Odor

Clear light green or brown liquid mild odor

# SECTION 10 - STABILITY AND REACTIVITY

Hazardous Decomposition

Oxides of carbon, nitrogen, and sulfur; release of water, heat, and toxic gases are possible.

Stability

Incompatibility

Strong bases, nitrogen-containing compounds such as ammonia, urea, amines; also chlorinated chemicals, bleaches, or any oxidizing agents.

NOTE: The C### notation below refers to a principal component based on the amount present in the product which may involve trade secret chemicals. In the event of an accident, notify the Poison Control Center for more information.

# SECTION 11 - TOXICOLOGICAL INFORMATION

C038

Acute Effects:

Inhalation:

Inhalation of mists can cause corrosive action on mucous membranes. Symptoms include burning, choking, coughing, wheezing, laryngitis, shortness of breath, headache or nausea.

Move casualty to fresh air and keep at rest. Get medical attention if symptoms persist.

Eyes:

Symptoms include eye burns, watering eyes. Rinse with plenty of water for a minimum of 15 minutes and seek

medical attention immediately.

Skin:

Symptoms include burning, itching, redness, inflammation

and/or swelling of exposed tissues.

Immediately flush with plenty of water for at least

15 minutes while removing contaminated clothing and wash

using soap. Get medical attention if necessary.

Ingestion:

Do Not Induce Vomiting! Causes corrosive burns of the

mouth, gullet and gastrointestinal tract

if swallowed. Symptoms include burning, choking, nausea, vomiting and severe pain. Wash outmouth with water and give a glass of water or milk. Get medical attention

immediately.

Target organs:

Blood, liver, skin, eyes and bone marrow.

**Acute Toxicity Data:** 

Phosphoric acid

LD50 [oral, rat]; 1530 mg/kg LC50 [rabbit]; 1.689 mg/L (1 hour) LD50 Dermal (rabbit); 2740 mg/kg

Chronic Effects:

May affect liver, conjunctivitis, dermatitis, pulmonary edema.

Teratogenicity: Mutagenicity: Embryotoxicity:

Negative Negative Negative

Synergistic Products/Effects:

Not Available

c027

Oral LD50:

Inhalation 4 h LC50: Corrosive, Skin irritation: Eye irritation: Corrosive, 2,040 mg/kg (70% solution), rat

3.6 mg/l , male, rat

rabbit rabbit

Did not cause sensitization on laboratory animals.,

Skin sensitization

guinea pig

Repeated dose toxicity: Oral rat: Weight loss

Inhalation : rat Liver effects

Mutagenicity:

Did not cause genetic damage in cultured animals.

Did not cause genetic damage in cultured mammalian cells. Did not cause genetic damage in cultured bacterial cells. :

Reproductive toxicity: Animal testing showed no reproductive toxicity.

Lime-Sol, Date Issued: May 2015 Teratogenicity:

Several developmental toxicity studies have been conducted with ethylene glycol (metabolized to glycolic acid) or with glycolic acid in mammals. The majority of studies conducted with rodents demonstrate developmental toxicity only at high dietary exposure levels which also produce other toxic effects in the adult animal. Based on the weight of evidence, glycolic acid is not considered a unique developmental hazard to the embryo.

c062 Mutagenicity

not mutagenic in AMES Test.

# SECTION 12 - ECOLOGICAL INFORMATION

C038

Ecotoxicity

(aquatic and terrestrial):

DL50 12 hours@ pH of 3 - 3.5

DL50 (12 hours): pH 4.6 (Daphnia Magna)

Persistence and Degradability:

Bioaccumulative Potential: Mobility in Soil: Not Available Not Available Not Available Not Available

Other Adverse Effects:

C027

96 h LC50 : 72 h EbC50 : 48 h EC50 :

Environmental Fate : Glycolic acid :

Biodegradability:
Bioaccumulation:

Pimephales promelas (fathead minnow) 164 mg/l Pseudokirchneriella subcapitata (green algae) 22.5 mg/l Daphnia magna (Water flea) 141 mg/l

Readily biodegradable, according to appropriate OECD test.

Bioaccumulation is unlikely.

C062 Product:

Sodium Xylene Sulfonate SXS

**Test Results** 

EC50 Algae: > 230 mg/kg E050 Daphnia: > 1000 mg/L L050 Rainbow Trout: > 1000 mg/L

\* Estimates for product may be based on additional component data not shown.

**Ecotoxicity** 

Readily biodegradable.

#### SECTION 13 - DISPOSAL CONSIDERATIONS

C038

RCRA:

Hazardous waste? Waste Residues:

Yes RCRA ID number: DOO2

Carefully dilute with water, neutralize per spill procedures in section 6. Neutralized material may be flushed to sewer (REGULATIONS PERMITTING!) or disposed of through a licensed contractor. Users should review their operations in terms of the applicable federal/nation or local regulations and consult with appropriate regulatory agencies before discharging or disposing of waste material.

**Product containers:** 

Containers, if thoroughly cleaned, preferably by rinsing three times and handling the rinse water as waste residues, may be disposed of or recycled as non-hazardous waste. Users should review their operations in terms of the applicable federal/national or local regulations and consult with appropriate regulatory agencies before discharging or disposing of waste material.

C027

Waste Disposal:

Treatment, storage, transportation, and disposal must be in accordance with

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Environmental Hazards:

C062

applicable federal, state/provincial, and local regulations. May be a RCRA hazardous waste due to the corrosivity characteristic (pH).

Do not re-use empty containers.

Dispose in accordance with all applicable regulations. All wastes must be handled in accordance with local, state and federal regulations.

#### SECTION 14 - TRANSPORT INFORMATION

C038

DOT:

UN1805, Phosphoric Acid solution, 8, pg III

TDG:

UN1805, Phosphoric Acid liquid, 8, pg III

PIN: IDMG: Not Available UN1805, 8, pg III

Marine Pollutant:

No

IATA/ICAO:

UN1805, 8, pg III

RID/ADR:

Class 8, Item 17(c), corrosive, UN1805

C027

DOT UN number :

Proper shipping name:

3265

Corrosive liquid, acidic, organic, n.o.s.

Class: 8 Packing group: II Labeling No.: 8

IATA\_C UN number: 3265

Proper shipping name:

Corrosive liquid, acidic, organic, n.o.s.

Class: 8
Packing group: II
Labeling No.: 8

IMDG UN number: 3265

Proper shipping name:

Corrosive liquid, acidic, organic, n.o.s.

Class: 8 Packing group: II Labeling No.: 8

C062

Refer to bill of lading ox container label for DOT or other transportation hazard classification, if any.

# SECTION 15 - REGULATORY INFORMATION

C038

**TSCA Inventory Status:** 

All ingredients are listed on the TSCA inventory.

Federal and State Regulations:

Illinois toxic substances

disclosure to employee act: Illinois chemical safety act:

New York release

reporting list:

Rhode Island RTK hazardous

substances:
Pennsylvania RTK:
Minnesota:
Massachusetts RTK:
Massachusetts spill list:

Phosphoric acid

Phosphoric acid

Phosphoric acid

Phosphoric acid Phosphoric acid Phosphoric acid Phosphoric acid Phosphoric acid Phosphoric acid

New Jersey:

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New Jersey spill list: Louisiana spill reporting: California Director's list

of hazardous substances: Phosphoric acid

SARA 302/304/311/312 extremely hazardous substances:

SARA 313 toxic chemical notification and release reporting:

**CERCLA: Hazardous Substances:** California Proposition 65: No

WHMIS Canada: DSCL (EEC):

C027

TSCA Status:

SARA 313 Regulated:

Title III: classification

C062

There is no calculable reportable quantity (RQ) for this product.

CERCLA (Superfund) reportable quantity

Superfund Amendments and Reauthorization Act of 1986 (SARA) Section 302 extremely substance Section 311 hazardous

Phosphoric Acid

Phosphoric acid

Phosphoric acid

Phosphoric Acid

Phosphoric Acid, 5000lbs.

Class E - corrosive liquid. R34 - Causes burns.

Listed.

SARA 313: This material does not contain any chemical components with Chemical(s) known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

Acute Health Hazard: Yes Chronic Health Hazard: No

Fire: No

Reactivity/Physical hazard: No

Pressure: No

None

No hazardous

No chemical

#### SECTION 16 - OTHER INFORMATION

Federal Hazardous Substances Act statutes and Consumer Product Safety Commission regulations: 16 CFR 1500.14(b)(3) and 1500.83(a)(13).

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<sup>\*</sup>SDS updated by: Timothy Sharpe, TCI Chemist, Childress, TX