



MATERIAL SAFETY DATA SHEET

REVISION DATE: 04/16/2012

REVISION NUMBER: 8

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PREPARED BY:

EH&S DEPARTMENT

1. CHEMICAL PRODUCT

PRODUCT NAME: **LIME-SOL, Liquid Phosphoric Acid Foam Cleaner**
PRODUCT CODE: 102800

NFPA/HMIS HAZARD CODES(minimal=0; slight=1; moderate=2; serious=3; severe=4)

Health: 3/3

Fire: 0/0

Reactivity: 1/1

Special/Protective Equipment: Acid/C

NAME OF THE MANUFACTURER: Rochester Midland Corporation
155 Paragon Drive
Rochester, New York 14624
USA
Emergency Phone:
INFOTRAC: 1-800-535-5053
OUTSIDE US: 1-352-323-3500

2. HAZARDS IDENTIFICATION

EFFECTS FROM ACUTE EXPOSURE:

INGESTION: Severe burns to mucous membranes of mouth, throat and digestive tract.
SKIN CONTACT: Causes moderate skin irritation. Prolonged contact causes severe burns which may not be immediately painful or visible.
INHALATION: Inhalation of spray mist may be irritating. Possible damage to mucous membranes of nose and throat.
EYE CONTACT: Causes severe eye irritation. May Cause Eye Burns. May cause permanent eye damage. May cause blindness.
CHRONIC EFFECTS: Dermatitis. Possible respiratory damage from inhalation of dust or mist.
EFFECTS/CARCINOGENICITY: None listed under OSHA, IARC, or NTP.
ROUTES OF ENTRY: Routes of entry for solids and liquids include eye and skin contact, ingestion and inhalation.

3. COMPOSITION/INFORMATION ON INGREDIENTS

PRODUCT COMPOSITION CAS#	%	ACGIH TLV	OSHA PELs
Phosphoric acid 7664-38-2	35	1 mg/m ³	1 mg/m ³

4. FIRST AID MEASURES

INGESTION: Do not induce vomiting. Slowly dilute with 1-2 glasses of water or milk and seek medical attention. Never give anything by mouth to an unconscious person.
SKIN: Flush with water for at least 15 minutes while removing all contaminated clothing and shoes. Get medical attention if irritation or burns develop.
INHALATION: If inhaled, remove to fresh air. If not breathing give artificial respiration, preferably mouth-to-mouth. If breathing is difficult give oxygen. Get medical attention.
EYES: In case of contact, or suspected contact, immediately flush eyes with plenty of water for at least 15 minutes and get medical attention immediately after flushing.
NOTES TO PHYSICIAN: None.

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5. FIRE AND EXPLOSION HAZARD DATA

FLASH POINT:	(F): None (C): None
METHOD:	None
FLAMMABLE LIMITS IN AIR	
LOWER (%):	No data
UPPER (%):	No data
SENSITIVITY TO MECHANICAL IMPACT(Y/N):	NO
SENSITIVITY TO STATIC DISCHARGE:	Sensitivity to static discharge is not expected.
SUITABLE EXTINGUISHING MEDIA:	Product will not burn.
FIRE FIGHTING PROCEDURES:	Corrosive material. Avoid exposure to mist and splashes. Cool exposed containers with water spray after extinguishing fire. Fire-fighters should wear self-contained breathing apparatus and full protective clothing when fighting chemical fires.

6. ACCIDENTAL RELEASE MEASURES

SPILL PROCEDURES:

SMALL SPILLS:	Pick up with absorbant material. Flush residue with water.
LARGE SPILLS:	Dike to contain. Pick up with absorbant material. Put in suitable container for disposal. Flush remainder with water.

PERSONAL PRECAUTIONS: Not applicable

ENVIRONMENTAL PRECAUTIONS: Not applicable

METHODS FOR CLEANING UP: Not applicable

7. HANDLING AND STORAGE

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE: Avoid contact with eyes, skin and clothing. Do not breathe mist or vapors. Store in a well ventilated area. Store only in original container and keep closed. Store in a cool, dry area. Do not reuse container. Mix only with water. Follow label directions carefully.

DANGER: Concentrated acidic liquid.

OTHER PRECAUTIONS: Keep out of reach of children.

SPECIFIC USE(S): Not applicable.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

PROTECTIVE EQUIPMENT:



EXPOSURE CONTROLS:
RESPIRATORY PROTECTION: Showers. Eyewash stations.
Use NIOSH approved acid respirator with dust/mist filter if spray mist in air exceeds exposure limits. None normally required.

PROTECTIVE GLOVES: Rubber or plastic gloves recommended to minimize skin contact.

EYE PROTECTION: Goggles. Face shield.

OTHER PERSONAL PROTECTION EQUIPMENT: Appropriate protective clothing as needed to prevent skin contact. Liquid may penetrate leather shoes and cause delayed burns. Rubber boots. Eyewash fountains and safety showers must be easily accessible.

VENTILATION: Corrosion resistant equipment recommended. When cleaning aluminum or galvanized surfaces, use explosion proof equipment to remove any hydrogen gas. General mechanical and/or local exhaust as needed to meet exposure limits if mist in air. None required.

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE AND ODOR: Clear red. Odorless.

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9. PHYSICAL AND CHEMICAL PROPERTIES

BOILING POINT (F):	230° F approx.	(C) 110° C approx.
VAPOR PRESSURE:	Not determined	
VAPOR DENSITY (AIR=1):	Not determined	
SOLUBILITY IN WATER:	Not determined	
SPECIFIC GRAVITY:	1.21 - 1.23	
VOC Content (%):	None	
EVAPORATION RATE:	Less than water	
PH:	< 0	

10. STABILITY AND REACTIVITY

STABILITY DATA:	STABLE
POLYMERIZATION:	Will Not Occur.
HAZARDOUS DECOMPOSITION:	If evaporated to dryness, as in a fire, material may burn, releasing: Soot. Smoke. Carbon Monoxide. Oxides of Phosphorus.
INCOMPATIBILITY (MATERIALS TO AVOID):	Do not mix with: Alkalines. Chlorine containing materials. Peroxides. Reducing agents. Avoid contact with aluminum, zinc, other soft metals or galvanized metals. Reaction will generate hydrogen gas. This gas is flammable and/or explosive in presence of ignition source.
CONDITIONS/HAZARDS TO AVOID:	None.

11. TOXICOLOGICAL INFORMATION

ACUTE TOXICITY:	Not Established
EFFECTS OF CHRONIC EXPOSURE:	Not established.
OTHER TOXIC EFFECTS:	Not established.

12. ECOLOGICAL INFORMATION

ECOTOXICOLOGICAL INFORMATION:	No data at this time
CHEMICAL FATE INFORMATION:	No data at this time.
MOBILITY:	Not applicable.
PERSISTENCE/DEGRADABILITY:	Not applicable
BIOACCUMULATIVE POTENTIAL:	Not applicable
OTHER ADVERSE EFFECTS:	Not applicable

13. DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHODS: Dispose in accordance with Federal, State and Local regulations.

14. TRANSPORT INFORMATION

Please refer to the Bill of Lading/Receiving documents for up to date shipping information.

15. REGULATORY INFORMATION

PRODUCT COMPOSITION CAS#	%	TSCA:	EINECS:	Canada DSL:	CA PROP 65:
Phosphoric acid 7664-38-2	35	Listed	Listed	Listed	Not Listed

PRODUCT COMPOSITION CAS#	%	CERCLA:	SARA 302:	SARA 313:
Phosphoric acid 7664-38-2	35	2270 kg 5000 lb	Not Listed	Not Listed

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PRODUCT COMPOSITION CAS#	%	Canada WHMIS:
Phosphoric acid 7664-38-2	35	Listed

The following components of this material are included in the Massachusetts Substance List and are present at or above reportable levels.

PRODUCT COMPOSITION CAS#	%	MARTK:
Phosphoric acid 7664-38-2	35	Listed

The following components of this material are included in the New Jersey Substance List and are present at or above reportable levels.

PRODUCT COMPOSITION CAS#	%	NJRTK:
Phosphoric acid 7664-38-2	35	Listed

The following components of this material are included in the Pennsylvania Substance List and are present at or above reportable levels.

PRODUCT COMPOSITION CAS#	%	PARTK:
Phosphoric acid 7664-38-2	35	Listed

16. OTHER INFORMATION

This information was compiled from current, reliable sources and is believed to be correct. As data, and/or regulations change, and conditions of use and handling are beyond our control, no warranty, express or implied, is made as to completeness or continuing accuracy of this information.

*** END OF MSDS ***