

**KIMBALL
MIDWEST**
Specializing in Materials Management
SAFETY DATA SHEET

1. PRODUCT AND COMPANY IDENTIFICATION

Product Identity: Limex Non-Foaming Lime & Scale Remover 80-30041

Recommended use of the chemical and restrictions on use:

Product Use:

Uses Advised Against:

Manufactured For: Kimball Midwest
4800 Roberts Road
Columbus, OH 43228
Information Telephone: 800-233-1294

Emergency Phone: 800-424-9300 (Chemtrec)

SDS Date of Preparation: 2/20/15

2. HAZARDS IDENTIFICATION

GHS Classification:

Physical:	Health:
Corrosive to Metals Category 1	Eye Damage Category 1 Skin Corrosion Category 1B

GHS Label Elements:

Danger



Contains: Phosphoric acid

Statements of Hazard

H290 May be corrosive to metals.
H314 Causes severe skin burns and eye damage.

Precautionary Phrases

P234 Keep only in original container.
P260 Do not breathe mists.
P264 Wash thoroughly after handling.
P280 Wear protective gloves, protective clothing, eye protection and face protection.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310 Immediately call a POISON CENTER or doctor.

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.
 P310 Immediately call a POISON CENTER or doctor.
 P363 Wash contaminated clothing before reuse.
 P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
 P310 Immediately call a POISON CENTER or doctor.
 P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
 P310 Immediately call a POISON CENTER or doctor.
 P390 Absorb spillage to prevent material damage.
 P405 Store locked up.
 P406 Store in corrosive resistant container with a resistant inner liner.
 P501 Dispose of contents and container in accordance with local, state, and national regulations.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Component	CAS No.	Amount
Phosphoric acid	7664-38-2	<40%

The exact concentration is being withheld as a trade secret.

4. FIRST AID MEASURES

Eye: Immediately flush thoroughly with water for 30 minutes, while holding the eye lids open to be sure the material is washed out. Remove contact lenses if present and easy to do. Get immediate medical attention.

Skin: Immediately flush skin with plenty of water for 30 minutes while removing contaminated clothing and shoes. Get immediate medical attention. Launder clothing before re-use. (Discard contaminated shoes).

Inhalation: Immediately remove victim to fresh air. If breathing is difficult, oxygen should be administered by qualified personnel. If breathing has stopped, administer artificial respiration. Get immediate medical attention.

Ingestion: Do not induce vomiting. Rinse mouth with a small amount of water. Never give anything by mouth to an unconscious or drowsy person. Get immediate medical attention.

Most Important Symptoms: May cause severe eye and skin irritation or burns. Permanent damage may occur. Inhalation of mists or vapors may cause severe respiratory irritation. Swallowing may cause burns to the mouth, throat or stomach.

Indication of immediate medical attention/special treatment: Immediate medical attention is required for all routes of exposure.

5. FIRE-FIGHTING MEASURES

Suitable (and Unsuitable) Extinguishing Media: Use any media that is suitable for the surrounding fire.

Specific Hazards Arising from the Chemical: This product is not flammable or combustible. Aqueous solutions may cause surfaces to be extremely slippery and cause a slip hazard. Thermal decomposition may release oxides of carbon and phosphorus, and irritating smoke.

Special Protective Equipment and Precautions for Fire-Fighters: Firefighters should wear positive pressure self-contained breathing apparatus and full protective clothing. Cool fire exposed containers with water spray.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment, and Emergency Procedures: Isolate the area and remove unprotected people. Wear suitable protective clothing to prevent skin and eye contact. Ventilate the area. Aqueous solutions may cause surfaces to be extremely slippery and cause a slip hazard.

Methods and Materials for Containment and Cleaning Up: Contain and collect using inert absorbent materials and place in appropriate containers for disposal. Keep out of sewers and waterways. Notify authorities of releases as required.

7. HANDLING AND STORAGE

Precautions for Safe Handling: Prevent contact with the eyes, skin and clothing. Wear protective clothing and equipment. Do not breathe mists or vapors. Use only with adequate ventilation. Wash thoroughly with soap and water after handling. Keep containers closed when not in use. Wash clothing before re-use.

Do not reuse containers. Empty containers retain product residues which can be hazardous. Follow all SDS precautions when handling empty containers.

Conditions for Safe Storage, Including Any Incompatibilities: Store in a cool, dry, well-ventilated area away from oxidizers and other incompatible materials. Keep only in original container. Store in corrosive resistant container. Keep container tightly closed.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines:

Phosphoric acid	1 mg/m ³ TWA, 3 mg/m ³ STEL ACGIH TLV 1 mg/m ³ TWA OSHA PEL
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Engineering Controls: Use with adequate general or local exhaust ventilation to maintain exposure levels below the occupational exposure limits.

Respiratory Protection: In operations where exposure levels are excessive, an approved respirator with dust/mist cartridges or supplied air respirator should be used. Respirator selection and use should be based on contaminant type, form and concentration. Follow applicable regulations and good Industrial Hygiene practice.

Skin Protection: Chemical resistant gloves recommended to prevent skin contact. Contact your glove supplier for assistance in selecting an appropriate glove.

Eye Protection: Wear chemical safety goggles and faceshield if contact is possible.

Other: Impervious coveralls, apron and boots is required to prevent skin contact and contamination of personal clothing.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Clear yellow liquid	Flammable Limits: LEL: Not applicable UEL: Not applicable
Odor: Odorless	Vapor Pressure: Not available
Odor Threshold: Not available	Vapor Density: Not available

pH: <1	Relative Density: 1.234
Melting/Freezing Point: <0°F (-17.8°C)	Solubility (ies): Soluble in water
Initial Boiling Point/Range: >200°F (>93.3°C)	Partition Coefficient Octanol/Water: Not available
Flashpoint: None	Auto-ignition Temperature: Not available
Evaporation Rate: Not available	Decomposition Temperature: Not available
Flammability (solid, gas): Not applicable	Viscosity: Not available

10. STABILITY AND REACTIVITY

Reactivity: Not normally reactive

Chemical Stability: Stable under normal storage and handling conditions.

Possibility of Hazardous Reactions: Hazardous polymerization will not occur. Product may corrode metals.

Conditions to Avoid: None known.

Incompatible Materials: Strong oxidizers, strong alkali, and metals.

Hazardous Decomposition Products: When heated to decomposition emits oxides of carbon and phosphorus, and irritating smoke.

11. TOXICOLOGICAL INFORMATION

HEALTH HAZARDS:

Eye: May cause severe irritation or burns with redness, tearing and pain. Permanent damage may occur.

Skin: May cause severe irritation or burns.

Inhalation: Inhalation of mists or vapors may cause severe irritation of the nose, throat and respiratory tract. High concentrations may cause lung damage.

Ingestion: Ingestion may cause burns to the mouth, throat and stomach, nausea, vomiting, diarrhea and shock.

Chronic: No data available.

Sensitization: This product is not expected to cause sensitization.

Carcinogenicity: None of the components of this product greater than 0.1% are listed as a carcinogen or suspected carcinogen by IARC, NTP, OSHA or the EU CLP.

Germ Cell Mutagenicity: Not expected to cause germ cell mutagenicity.

Reproductive Toxicity: Not expected to cause reproductive harm.

Numerical Measures of Toxicity: No data available for the mixture. The following are the toxicity values for the components:

Phosphoric acid: Oral rat LD50: 2600 mg/kg, Skin rabbit LD50: 2740 mg/kg

12. ECOLOGICAL INFORMATION

Ecotoxicity:

The following information is available for the ingredients of this product:

Phosphoric acid: 96 hr LC50 Mosquitofish: 138 mg/L

This product is not expected to be harmful to the aquatic environment.

Persistence and Degradability: No data available.

Bioaccumulative Potential: No data available.

Mobility in Soil: No data available

Other Adverse Effects: No data available

13. DISPOSAL CONSIDERATIONS

Dispose in accordance with local and national environmental regulations.

14. TRANSPORT INFORMATION

DOT Hazardous Materials Description:

Proper Shipping Name: Consumer Commodity

UN Number: None

Hazard Class/Packing Group: None

Labels Required: ORM-D

Note: This product has an RQ of 12,500 lbs (Phosphoric acid RQ 5,000 lbs)

15. REGULATORY INFORMATION

CERCLA 103 Reportable Quantity: This product has an RQ of 12,500 lbs (based on the RQ of Phosphoric acid of 5,000 lbs present at <40%). Some states have more stringent reporting requirements. Report all spills in accordance with local, state, and federal regulations.

SARA TITLE III:

Hazard Category for Section 311/312: Acute Health

Section 313 Toxic Chemicals: This product contains the following chemicals subject to SARA Title III Section 313 Reporting requirements: None

Section 302 Extremely Hazardous Substances (TPQ): None

California Proposition 65: This product contains a substance known in the State of California to cause cancer and/or reproductive harm.

EPA Toxic Substances Control Act (TSCA) Status: All of the components of this product are listed on TSCA inventory.

16. OTHER INFORMATION

NFPA Rating: Health = 3

Flammability = 0

Instability = 0

HMIS Rating: Health = 3

Flammability = 0

Physical Hazard = 0

Revision Summary:

2/20/15: New SDS

NOTICE

The above information is believed to be correct but does not propose to be all inclusive and shall be used only as a guide. Kimball Midwest shall not be held liable for any damage resulting from handling or from contact with the above product. This information relates only to the product designated herein and does not relate to its use in combination with any other material or process.