

Supplied By:



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Material Safety Data Sheet

EMERGENCY PHONE:
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This document is prepared pursuant to the OSHA Hazard Communication Standard (29 CFR 1910.1200)

Section 1: Product Identification

Product Name: LIME FREE

Product Number: K501

Product Use: Heavy duty lime and scale remover

DOT Shipping: Corrosive Liquid, acidic, inorganic, N.O.S.
(Phosphoric Acid), 8, UN3264, PG III

Section 2: Hazardous Ingredient Information

Hazard Chemical Identity

	CAS No.	ACGIHTLV
Phosphoric Acid	7664-38-2	1mg/m3

**Contains toxic chemical(s) subject to reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR 372.

CAS No. 7664-38-2 Chemical Name: Phosphoric Acid %30

Section 3: Physical Data

Color: Green **Odor:** Mild **Physical State:** Liquid
Solubility in Water: Complete **Boiling Point:** Similar to water
Vapor Pressure: Similar to water **Specific Gravity:** 1.259
Vapor Density in Air (Air=1): Similar to water
% Volatile, By Volume: None
Evaporation Rate: NIL

Section 4: Fire and Explosion Hazard Data

Flash Point (Method Used): None
Conditions to Avoid: N.A.
Extinguishing Media: N.A.
Unusual Fire and Explosion Hazards: Firefighters should wear self-contained positive breathing apparatus, and avoid skin contact.

Section 5: Reactivity Data

Chemical Stability: Stable
Conditions to Avoid: Mixture with caustic or incompatible materials can cause splattering and release of large amounts of heat.
Incompatibility (Materials to avoid): Caustic, ammonia, bleach, chlorinated isocyanurates, chlorinated trisodium phosphate
Hazardous Decomposition Products: Will not occur
Hazardous Polymerization: Will not occur

Section 6: Toxicological Properties

Exposure Limits:	ACGIH	OSHA
Phosphoric acid	1mg/m3 Ceiling	1mg/m3 (PEL/TWA)

Medical Conditions Aggravated by Exposure: No known medical conditions aggravated by exposure.

Acute Toxicity:

Eyes: Major potential hazard-Liquid in the eye can cause severe destruction and burns. Mist can cause irritation with high concentrations causing burns.

Skin: Potential hazard-Contact with the skin can cause irritation and possible burns. Prolonged or repeated contact with dilute solutions may cause drying and cracking of skin.

Ingestion: Ingestion can cause irritation of the mouth, throat, esophagus and stomach.

Inhalation: Inhalation of solution mist can cause mild irritation at 5mg/m3. More severe burns and tissue damage of the upper respiratory tract can occur at higher concentrations.

Chronic Toxicity: Chronic skin contact may cause dermatitis. This product does not contain any materials listed on the IARC, OSHA, or NPT carcinogen lists.

Section 7: Preventative & Control Measures

Respiratory Protection: For levels that exceed or are likely to exceed 1mg/m3 use approved high efficiency particulate filter with full facepiece or SBA. Follow any applicable respirator use standards and regulations.

Ventilation: As necessary to maintain concentration in air below 1mg/m3 at all times.

Skin Protection: Wear neoprene, PVC, or rubber gloves.

Eye Protection: Wear safety glasses or splashproof chemical goggles.

Hygiene: Avoid contact with skin. Do not eat, drink or smoke in work area. Wash hands prior to eating, drinking, or using restroom. Any protective clothing which becomes contaminated should be thoroughly cleaned before reuse.

Other Control Measures: Safety shower and eye wash should be located in work area.

STEPS TO BE TAKEN IF MATERIAL IS SPILLED OR RELEASED:

Product should be contained and recovered into containers. Product that cannot be recovered should be neutralized with sodium carbonate. Cleanup personnel should follow all safety precautions during cleanup.

Waste Disposal: Dispose of in accordance with all local, state and federal regulations.

Section 8: Emergency First Aid Procedures

First Aid Notes to Physician:

Eyes: Wash eyes immediately with large amounts of water (preferably eye wash fountain), lifting the upper and lower eyelids and rotating eyeball. Continue washing for a minimum of 15 minutes. **Get medical attention immediately.**

Skin: Remove contaminated clothing immediately and wash skin thoroughly for a minimum of 15 minutes with large quantities of water (preferably a safety shower). **Get medical attention immediately.**

Ingestion: If person is conscious, give large amounts of milk, milk of magnesia or raw eggs. If these are not available, drink a large amount of water. Follow with olive, vegetable or mineral oil. Do NOT induce vomiting. **Get immediate medical attention.**

Inhalation: Move person to fresh air. If breathing stops, administer artificial respiration. **Get medical attention immediately.**

Section 9: Precautionary Information

Danger! Corrosive to eyes, skin and mucous membranes. If swallowed, can cause severe irritation of mucous membranes of the mouth, throat, esophagus and stomach. Inhalation can cause severe irritation and burns of this upper respiratory tract and lungs depending on exposure.

Section 9: Storage and Handling Precautions

Store away from chlorinated materials
KEEP FROM FREEZING
Store in closed, properly labeled containers.
DO NOT remove or deface labels.
Use of this product should be limited to properly trained individuals.

Section 10: Preparation Information

Prepared By: Regulatory Affairs Department
Phone: 812-336-4817
Date of Preparation: October, 2004

The above information is believed to be accurate with respect to the formula used to manufacture this product. As data, standards and regulations change and conditions of use and handling are beyond our control. **NO WARRANTY** expressed or implied is made as to the completeness of continuing of this information.

Lime Free

Technical Data Sheet



*Liquid
Lime
And
Scale
Remover*

*Heavy
Duty
Industrial
Strength*

Product Description

Lime Free is a heavy duty lime and scale remover for institutional and industrial dishmachines. **Lime Free** uses the cleaning power of strong acids to remove the heaviest mineral deposits on dishmachines.

Use Directions

Please read product label or consult your LabTek service representative for directions for your specific dishmachine.

Areas of Use

Recommended for use in institutional dishmachines.

Safety Precautions

Caution! Harmful if swallowed. Corrosive to eyes, skin and mucous membranes. Read product label and MSDS for complete list of hazards and safety precautions. Keep out of reach of children.

Shipping Classification

Corrosive Liquid,acidic,inorganic, N.O.S.(Phosphoric Acid), 8, UN3264, PGIII

Packaging

4 X 1 Gallon Case

Properties

FORM: Green Liquid
SPECIFIC GRAVITY: 1.259
SOLUBILITY: Complete
PRIMARY HAZARD: Corrosive to eyes and skin
COMPOSITION: Phosphoric Acid