

Chemical Maintenance, Inc.

1100 Bloomington Road
Champaign, Illinois 61820

MATERIAL SAFETY DATA SHEET

Revision Date: 1/20/2006

MSDS No. N352

Emergency Phones: 217-359-6262

PLEASE NOTE: This MSDS is being provided to your company for the purpose of providing current health and safety information to your management and for your employees who work with this material. Please read the information on these sheets, and then provide this information to those people at your company whose responsibility it is to comply with FEDERAL and STATE RIGHT-TO-KNOW regulations. Also make this information available to any employee who requests it. It is your obligation to comply with these regulations.

SECTION I - PRODUCT IDENTITY

PRODUCT NAME: Limes Off C.I.P. Acidic Scale Remover

Formula: Mixture, water, detergents, phosphoric acid, additives

Chemical Type: Mineral acid and additives

HMIS RATINGS

Health = 3 (Serious)	Flammability = 0 (Insignificant)
Reactivity = 0 (Minimal)	Protection = C (Safety Glasses, Gloves, Synthetic Apron)

SECTION II - HAZARDOUS INGREDIENTS

	<u>PERCENT</u>	<u>TLV</u>	<u>STEL</u>	<u>CARCINOGEN (OSHA,TP,IARC)</u>
Phosphoric Acid 7664-38-02	<35	1 mg/m ³	3 mg/m ³	None

SECTION III - CHEMICAL AND PHYSICAL

Appearance: Straw Liquid	Boiling Point: 210°F.
Odor: Pleasant	Melting Point: N/A
Ph: <1	Spec. Gravity (H ₂ O = 1): 1.14
Water Solubility: Complete	Vapor Pressure (Mm Hg): N/A
Viscosity: Water Thin	VOC Content: None (N.A.)

SECTION IV - FIRE AND EXPLOSION HAZARDS

Flash Point (Method): None	Explosion Limits:	Upper: N/A
		Lower: N/A

Extinguishing Media: N/A (product is non-flammable)

Special Firefighting Procedures and Hazards: Avoid skin and eye contact, and breathing of acid vapors. Wear head and body protection and acid respirator if exposure to liquid is likely.

SECTION V - REACTIVITY INFORMATION

Stable: Unstable:

Precautions:

Incompatibility: Strong alkalis, materials not resistant to strong acids, active metals (zinc, aluminum, magnesium, etc.).

Hazardous Decomposition Products: Possible phosphorus oxide fumes at fire temperatures. Contact with active metals can release flammable gas.

Hazardous Polymerization: Occurs: Does Not Occur:

SECTION VI - HEALTH HAZARDS - PROTECTIVE MEASURES - FIRST AID

- Inhalation:** Breathing of vapor can cause respiratory irritation and inflammation. If necessary, wear approved acid vapor/ mist respirator if exposure is likely. Remove party to fresh air and give artificial respiration or oxygen if needed. Get medical attention.
- Skin:** Corrosive. Causes irritation and burns. Wear acid resistant protective gloves if working with product concentrate. Provide convenient safety showers. Flush skin with water for 15 minutes. Get medical attention if irritation persists. Remove contaminated clothing and launder before re-use. Discard contaminated shoes.
- Eyes:** Corrosive. Causes eye damage. Wear splash proof goggles or side shield safety glasses. Provide convenient eyewash stations. Flush immediately with water for 15 minutes. Get prompt medical attention.
- Ingestion:** Corrosive. Causes irritation and burning in mouth and throat. Avoid swallowing. If swallowed, drink lots of water or, preferably, milk. Get medical attention if effects persist. Do not induce vomiting.

Most likely routes of entry: Skin, Eyes, Inhalation

Other Important Medical or Precautionary Information: None

SECTION VII - PRECAUTIONS FOR SAFE HANDLING AND USE

Spills and Leaks: Small spills can be flushed into normal drainage or into ground with copious amounts of water, or taken up with absorbent material. Larger spills should be contained by diking or other methods and held for collection and/or reuse, or for neutralization with alkali before collection and disposal. Personnel should use eye and skin protection.

Storage and Handling: Check daily for any leaks from containers, vessels, pumps, and piping. Have water hoses and alkali (caustic soda, lime, etc.) convenient. Only use containers and equipment designed for acid service. Use a respirator if area is poorly ventilated.

Waste Disposal: If neutralized, may be disposable in sewers if local regulations permit. Otherwise, send to licensed treatment and disposal facility. As supplied, this product is a RCRA hazardous waste.

Empty Containers: Rinse well before handling and disposal.

Other Precautions:

SECTION VIII - REGULATORY INFORMATION

Reportable for SARA Title III, S.313 (Form R): Phosphoric acid.

The information herein has been compiled from sources believed to be reliable and is accurate to the best of our knowledge. However, Chemical Maintenance, Inc. cannot give any guarantees regarding information from other sources, and expressly does not make any warranties, nor assumes any liability, for its use.
