

MAY 23 1993

# MATERIAL SAFETY DATA SHEET

(Prepared According to 29 CFR 1910.1200)

REVISED MARCH 1993

## SECTION 1 - PRODUCT IDENTIFICATION

Manufacturer <b>ELKHORN CHEMICAL CO., INC.</b>	Emergency Phone <b>INFOTRAC 800-535-5053</b>
Address <b>One Elko Lane, PO Box 30 Elkhorn, WI 53121</b>	Information <b>414-723-2646</b>
Trade Name <b>ELKO LIME OFF</b>	Product Type <b>De-limer</b>

## SECTION 2 - INGREDIENTS

CHEMICAL NAME/COMMON NAME	CAS NO.	PERCENT(optional)	TLV(Source)
Phosphoric Acid	7664-38-2		1mg/m <sup>3</sup>
Gluconic Acid	526-95-4		N/D
Alkyl Phenol Ethoxylate	24938-91-8		N/D

SARA HAZARD: TITLE III, SECTION 313:

## SECTION 3 - PHYSICAL DATA

Boiling point (°F) <b>200°F</b>	Specific Gravity (H <sub>2</sub> O=1.0) <b>1.10 ± 0.005</b>	pH <b>1 ± 0.5</b>
Vapor Pressure (mm Hg) <b>N/A</b>	Vapor Density (Air=1) <b>N/A</b>	
Solubility in water: Complete <input checked="" type="checkbox"/> Insoluble <input type="checkbox"/> Emulsifiable (or Dispersible) <input type="checkbox"/> Slight (or Partial) <input type="checkbox"/>		
Evaporation Rate (vs. H <sub>2</sub> O) <input type="checkbox"/> Faster <input type="checkbox"/> Slower <input checked="" type="checkbox"/> About the Same <input type="checkbox"/>	Appearance and Odor <b>Green liquid, mint odor</b>	

## SECTION 4 - FIRE AND EXPLOSION HAZARD DATA

Flash Point (T.C.C.) <b>N/A</b>	None to Boiling <input type="checkbox"/>	Flammable Limits <b>N/A</b>	Upper <input type="checkbox"/>	Lower <input type="checkbox"/>
Extinguishing Media <b>Standard fire fighting procedures.</b>				
Special Firefighting Procedures <b>Do not enter confined fire-spaces without protective clothing and self-contained air supply.</b>				
Unusual Fire and Explosion Hazards <b>N/A</b>				

## SECTION 5 - REACTIVITY DATA

Stability <b>Stable</b>	Incompatibility <b>Strong oxidizing agents.</b>
Hazardous Decomposition Products <b>None</b>	

## SECTION 6 - HEALTH HAZARD DATA

Primary Routes of Exposure: Eye <input checked="" type="checkbox"/> Skin <input checked="" type="checkbox"/> Oral <input checked="" type="checkbox"/> Inhalation <input type="checkbox"/> Other <input type="checkbox"/>
Signs and Symptoms of Overexposure (Acute) <b>Irritation to skin and eyes</b>
Signs and Symptoms of Overexposure (Chronic) <b>May product burns with prolonged contact.</b>
Medical Conditions Aggravated by Overexposure <b>Dermatitis.</b>
Carcinogen or Suspect Carcinogen Ingredients: <b>N/D</b> <input type="checkbox"/> NTP <input type="checkbox"/> IARC <input type="checkbox"/> OSHA <input type="checkbox"/> NONE <input type="checkbox"/>

## SECTION 7 - EMERGENCY AND FIRST AID PROCEDURES

Eyes <b>Flush eyes with water for at least 15 minutes and call a physician immediately.</b>
Skin <b>Wash affected areas with large amounts of soap and water. If irritation persists call physician.</b>
Ingestion <b>DO NOT INDUCE VOMITING. Drink large amounts of milk or milk of magnesia. Contact physician.</b>
Inhalation <b>Remove to fresh air.</b>

## SECTION 8 - SPECIAL PROTECTION INFORMATION

Respiratory Protection <b>N/A</b>
Eye Protection Requirements: <input checked="" type="checkbox"/> Local Exhaust <input type="checkbox"/> Mechanical <input type="checkbox"/> Other <input type="checkbox"/> Eye Protection <b>Safety Glasses/Goggles</b>
Protective Gloves: <b>Rubber/PVC</b> Other Protective Clothing <b>N/A</b>

## SECTION 9 - SPILL OR LEAK PROCEDURES

Steps to be Taken if Released or Spilled <b>Neutralize with soda ash. Flush to sewer.</b>
Waste Disposal Methods <b>Dispose in accordance with local, state and federal regulations.</b>

## SECTION 10 - STORAGE AND HANDLING INFORMATION

Precautions to be Taken in Handling and Storage <b>Keep out of reach of children.</b>
---

The health hazards given on this Material Safety Data Sheet apply to this product in its concentrated form (as supplied) and may differ significantly at use dilution. The sign and symptoms of overexposure apply only to negligence in handling or misuse of this concentrated product and not to the routine exposure of the diluted product under conditions of ordinary use.

HIMIS  
HAZARD  
RATING

HEALTH	2
FLAMMABILITY	0
REACTIVITY	0
PERSONAL PROTECTION	3

0 - LEAST  
1 - SLIGHT  
2 - MODERATE  
3 - HIGH  
4 - EXTREME