

# MATERIAL SAFETY DATA SHEET

Manufacturer	K&E Chemical Company, Inc.	Identity (trade name on label)	SAFE ETCH
	3960 East 93 <sup>rd</sup> Street	General Use*	N/A
	Cleveland, OH 44105	MSDS Number*	N/A
Phone Number	216-341-0500	Date Prepared	January 5, 2004
Emergency Phone Number	800-331-1696	Prepared By*	N/A

## SECTION 1 - MATERIAL IDENTIFICATION AND INFORMATION

Components - Chemical names & common names (hazardous components 1% or greater, carcinogens 0.1% or greater)	%*	CAS No*	OSHA PEL	ACGIH TLV	Other Limits Recommended
Phosphoric Acid		7664-38-2	1mg/m3	1mg/m	
Non-hazardous Ingredients					
TOTAL	100%				

## SECTION 2 - PHYSICAL/CHEMICAL CHARACTERISTICS

Boiling Point	316°F	Specific Gravity (Water = 1)	1.2	Solubility in Water	Complete
Vapor Pressure (mm Hg at temperature)	.028 at 20°C	Melting Point	N/A	Appearance and odor	Clear Blue Odorless Liquid
Vapor Density (Air = 1)	Over 1.0	Evaporation Rate (___ = 1)	Low	Water Reactive	No

## SECTION 3 - FIRE AND EXPLOSION HAZARD DATA

Flash Point and Method <input type="checkbox"/> Tagliabue <input type="checkbox"/> Setaflash <input type="checkbox"/> Pensky-Martens <input checked="" type="checkbox"/> Not Applicable	Auto-Ignition Temperature N/A	Flammability Limits (% air by volume) at N/A LEL N/A      UEL N/A
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Extinguisher Media	Cool storage drums with water spray, this material will not burn.
Special Fire & Explosion Hazards	N/A
Unusual Fire & Explosion Hazards	N/A

## SECTION 4 - REACTIVITY HAZARD DATA

STATE (under normal handling and storage conditions)	<input checked="" type="checkbox"/> Stable <input type="checkbox"/> Unstable
Conditions to Avoid	Contamination by metal salts or moisture
Incompatibility (materials to avoid)	Reaction of material with active metals (aluminum, iron) can liberate hydrogen.
HAZARDOUS POLYMERIZATION	<input type="checkbox"/> May Occur <input checked="" type="checkbox"/> Will Not Occur
Conditions to Avoid	N/A

**SECTION 5 - HEALTH HAZARD DATA**

Primary Routes of Entry	X Inhalation X Skin Absorption	X Ingestion <input type="checkbox"/> Not Hazardous
Carcinogen Listed In	<input type="checkbox"/> NTP <input type="checkbox"/> IARC Monograph	<input type="checkbox"/> OSHA X Not Listed
HEALTH HAZARDS	Acute: Can abrade skin tissues when it makes contact	
	Chronic: None Known	
Signs and symptoms of overexposure	Abrades tissue if not washed off	
Medical conditions generally aggravated by exposure	None Known	
EMERGENCY FIRST AID PROCEDURES	Eye Contact Flush eyes with plenty of water for at least 15 minutes, call a physician	
	Skin Contact Large contact: remove clothing under safety shower, get medical attention. Lesser contact: wash area with soap and water, remove contaminated clothes	
Seek medical assistance for further treatment, observation and support if necessary	Inhalation If inhaled, remove to fresh air. If unconsciousness occurs, seek medical attention, if breathing stops, use cardiopulmonary resuscitation , keep warm.	
	Ingestion Do not induce vomiting. Give large quantities of water or milk. Get medical attention. Do not give anything by mouth to an unconscious person.	

**SECTION 6 - CONTROL AND PROTECTIVE MEASURES**

Protective Gloves (type and construction)	Eye Protection
Water Resistant	Chemical Goggles
Required Ventilation (enclosed areas)	X Local Exhaust (collect vapors at source) X Mechanical (general) <input type="checkbox"/> Other (specify)
Respiratory Protection	NIOSH/MESA approved respirator for misting conditions.
Other Protective Clothing and Equipment	None
Hygienic work practices	Avoid contact with skin, but if gets on skin wash with soap and water.

**SECTION 7 - PRECAUTIONS FOR SAFE HANDLING AND USE/LEAK PROCEDURES**

Steps to be taken if material is spilled or released	Report spills as required to appropriate authorities. Regulations require reporting any spills that could reach any waterway
Waste disposal methods	Sprinkle hydrate lime or soda ash on spill area, scrape up and remove.
Precautions to be taken in handling and storage	Do not store with basic materials.

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Other precautions and/or special hazards

Store in cool dry place.

\*OPTIONAL