

# MATERIAL SAFETY DATA SHEET

## CLEAN 'N ETCH

### #899

#### SECTION 1 - General Information

Manufactured by: Great Lakes Laboratories  
Address: 12780 Wayne Road  
Livonia, MI 48150  
Emergency Phone: 1-800-888-1105  
Office: 1-313-525-8300  
Date revised: 1/1/98

HMIS	RATING
Health:	3
Fire:	0
Reactivity:	1
Other:	0

#### SECTION 2 - Hazardous Ingredients

Hazardous Material Description: Phosphoric Acid  
Class, ID NO.: Corrosive, UN1805  
Chemical Name: Phosphoric Acid  
CAS #: 7664-38-2  
% Weight: 40% - 60%  
CARCINOGEN: OSHA - No  
ACGIH - No

#### SECTION 3 - Physical Characteristics

Boiling Point: 212°F  
Vapor Pressure(mm Hg): N/A  
Vapor Density(Air = 1): N/A  
Specific Gravity  
(Water = 1): 1.24  
pH: 1.0  
Evaporation Rate  
(butyl acetate = 1): Equal to Water  
Solubility in Water: Complete  
Appearance: Orange Liquid  
Odor: None

#### SECTION 4 - Health Hazard Data

Exposure Limits:  
Threshold Limit Value: 1 mg/cu. m (ACGIH)  
PEL: 1 mg/cu. m (OSHA)  
STEL: 3 mg/cu. m (OSHA)  
Effects of Acute  
Overexposure: Phosphoric Acid has low  
acute oral and moderate  
dermal toxicity.  
Phosphoric Acid is  
corrosive to eyes  
Slightly toxic if inhaled.

#### SECTION 4 - Continued

##### Emergency and First Aid Procedures:

**Swallowing:** Do not induce vomiting. Drink plenty of water. See a physician immediately.  
**Skin:** Immediately wash with soap and water. If irritation occurs and persists, see a physician.  
**Eyes:** Flush with water for at least 15 minutes, lifting upper and lower eyelids repeatedly. See an ophthalmologist.

**Inhalation:** Remove to fresh air. If breathing difficulty or discomfort occurs, see a physician.

#### SECTION 5 - Fire and Explosion

Flash Point: None  
Extinguishing Media: N/A

**Special Fire Fighting Procedures:** Full protective clothing and self-contained breathing apparatus.  
**Unusual Fire and Explosion Hazards:** At flame temperatures, will emit toxic phosphorus oxide fumes.

#### SECTION 6 - Reactivity

**Stability:** Stable **Conditions to Avoid:** Contact with strong alkaline materials and reactive metals.  
**Incompatibility:** Contact with reactive metals may produce flammable hydrogen/air mixtures. Reacts violently with strong bases.

**Hazardous Decomposition or By Products:** At flame temperatures, will emit toxic phosphorus oxide fumes.

#### SECTION 7 - Control Measures

**Respiratory Protection:** Wear mask to prevent inhalation  
**Ventilation:** Keep concentration below TLV level.  
**Protective Gloves:** Impervious rubber or plastic.  
**Eye Protection:** Chemical safety goggles.  
**Protective Clothing:** Hat, boots and jacket may be needed in heavy mist or spill situation.

#### SECTION 8 - Spill/Leak Procedures

**In Case of Spill:** Stop leak. Dike and absorb with inert absorbent. Neutralize washings with soda ash or lime.  
**Waste Disposal Method:** In accordance with regulations.  
**CERCLA Reportable Qty.:** 5,000 lbs.

**RCRA Hazard Waste #:** N/A  
**VOC:** None

#### SECTION 9 - Precautions for Safe Handling

**Handling/Storage:** Store in a cool, dry place.  
Keep container closed.  
**Other Precautions:** Keep out of reach of children.  
Keep from freezing.

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