

40% Phosphoric Acid Etching Gel

**SECTION I - PRODUCT / COMPANY IDENTIFICATION**

Product Trade Name: Onyx, Etching Gel  
Part (Item) Number: 310053, 310054, 310055, 310052  
Manufacturer: Centrix Inc. Address: 770 River Road  
City, State, Zip: Shelton Ct, 06484  
Emergency Telephone Number: 203-929-5582  
Information Telephone Number: 800-235-5862

**SECTION II - HAZARDOUS INGREDIENTS/IDENTITY INFORMATION**

**Hazardous Components:** Phosphoric Acid      **Concentration:** 40%      **CAS NO.** (7664-38-2)      **Symbol:** C      **R:** 34      **OTHER LIMITS**

**SECTION III - HAZARDS IDENTIFICATION**

HAZARD CLASSIFICATION: Corrosive

**SECTION IV - FIRST AID MEASURES**

Skin: Immediately wash skin with plenty of water. If irritation occurs seek medical advice.  
Ingestion: If swallowed do not induce vomiting. Give large quantities of water and milk. Seek medical attention.  
Eyes: Flush with plenty of water. Seek immediate medical attention by an Ophthalmologist.

**SECTION V - FIRE-FIGHTING MEASURES.**

The product is not considered to be a fire hazard. The information below are given for extinguishing a fire generated by other sources.  
Suitable Extinguishing Media: Water, Chemical Foam, Carbon Dioxide, or Dry Chemical.  
Forbidden Extinguishing Media: None.  
Special Exposure Hazards: Toxic fumes of Phosphoric Acid.  
Unusual fire and explosion hazards: Contact with some metals may cause formation of hydrogen gas.  
Special Protection Equipment: Self Contained Breathing Apparatus if toxic fumes are generated.

**SECTION VI - ACCIDENTAL RELEASE MEASURES**

Personal Precautions: See sections VII and VIII.  
Environmental Precautions: None.  
Methods for Cleaning up: Clean up using impervious gloves and dispose of in an approved manner.

**SECTION VII - HANDLING AND STORAGE**

Handling: Avoid unnecessary exposure.  
Storage: Room Temperature.  
Containers: supplied by manufacturer, Incompatibilities, Strong caustics, sulfites, sulfides and metals.  
Other Precautions: Use according to directions. Avoid contact with eyes, skin and soft tissue.

**SECTION VIII - EXPOSURE CONTROLS / PERSONAL PROTECTION.**

General Measures Ventilation: N/A  
Limits: TWA: 1mg/m<sup>3</sup>.  
TLV: 3mg/m<sup>3</sup>.  
Respiratory Protection: N/A  
Eye Protection: Safety Glasses or Goggles.  
Skin Protection: Respect good personal hygiene practice. Avoid unnecessary exposure.  
Hands Protection: Impervious gloves  
Other Equipment: Lab Coat.

**SECTION IX - PHYSICAL AND CHEMICAL PROPERTIES.**

Appearance: Gel	Explosion Limits: zN/A	Odor: None	Water solubility: Soluble.
pH 10% solution: below 2	Specific Gravity: 1.3 g/cm <sup>3</sup>	Boiling Point: 100°C	
Evaporation Rate: N/A	Flash Point: N/A		

**SECTION X - STABILITY AND REACTIVITY.**

Stability: Stable.  
Conditions to avoid: Temperatures over 40°C  
Materials to avoid: Strong Caustics, Sulfites, Sulfides, Metals.  
Hazardous Decomposition Products: Toxic fumes if temperature is above 100°C.  
Hazardous Polymerization Products: None

**SECTION XI - TOXICOLOGICAL INFORMATION.**

Ingestion: May cause sore throat, abdominal pain, nausea and severe burns of mouth, throat and stomach.  
Eye contact: May cause redness, pain, blurred vision, eye burns or permanent eye damage.  
Skin Contact: May cause redness, pain and severe skin burns.  
Inhalation: Inhalation is not a hazard unless the product is heated at high temperatures.  
In these conditions may cause irritation of the respiratory system, asphyxia or permanent damage to the lungs.  
Prolonged Exposure: Burns to eye, soft tissue or respiratory tract.

**SECTION XII - ECOLOGICAL INFORMATION.**

There is no specific information on the product. Use according to good working practice. Avoid releasing the product into environment.

**SECTION XIII - DISPOSAL CONSIDERATIONS.**

Dispose according to local regulations.

**SECTION XIV - TRANSPORT INFORMATION.**

Substances determining Hazard: Phosphoric Acid.  
SEA TRANSPORTATION: IMCO # 8204 UN # 1805  
AIR TRANSPORTATION: ICAO/IATA CLASS: 8  
GROUND TRANSPORTATION: RID/ADR CLASS: 9  
SUBSTANCE IDENTIFICATION: # 1805 ITEM # 11C  
HAZARD LABEL: 9 HAZARD IDENTIFICATION: 80

**SECTION XV - REGULATORY INFORMATION**

CLASSIFICATION IN ACCORDANCE WITH EEC DIRECTIVES.  
Hazard Classification Symbol: C  
R34 Causes burns  
S24/S25 Avoid contact with skin and eyes  
S26/S28 In case of contact with eyes or skin, rinse immediately with plenty of water and seek medical advice.  
Ingredients Determining the label: PHOSPHORIC ACID.

**SECTION XVI - OTHER INFORMATION**

None.

**CAUTION: PRODUCT FOR PROFESSIONAL USE ONLY.**

The above information is based on presently available data and to our best knowledge for handling the product under normal conditions. Any use of this product in any way not indicated on this document or using it together with any other process/procedure will be exclusively under the user's responsibility.

Products covered by one or more of the following U.S. patents: 4,802,950. Other U.S and International patents pending or granted.



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