

# MATERIAL SAFETY DATA SHEET



A UEI GROUP COMPANY

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## SECTION I CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

**Product Identifier:** GPC® AquaMulsion® Positive Photoresist

**General Use:** Designed for use in the photoengraving industry.

**Company:** UEI® Systems, A UEI Group Company

**Address/Phone:** 9090 Nieman Road  
Overland Park, KS 66214  
(800) 221-9059 or (913) 541-0503

**Emergency Contact Number:** CHEMTREC – Available 24 hrs/day, 7 days/week  
Domestic North America: 800-424-9300  
International: 703-527-3887

## SECTION II HAZARDOUS INGREDIENTS / IDENTITIIY INFORMATION

Components	Cas No.	%	OSHA (PEL/TWA)	ACGIH TLV	MSHA (PET/TWA)
1-Methoxy-2-propanol	107-98-2	>50	Not Available	Not Available	
1-Propoxy-propanol-2	001569-01-3	>10	Not Available	Not Available	
Resins			Not Available	Not Available	
Sensitizers			Not Available	Not Available	
Dyes			Not Available	Not Available	

## SECTION III HAZARD IDENTIFICATION

**Identification:** Flammable

## SECTION IV FIRST AID MEASURES

**In all cases call a physician immediately.**

**Ingestion:** Do not induce vomiting unless advised to do so by a physician.

**Inhalation:** Remove to fresh air. If not breathing, apply artificial respiration, preferably mouth-to-mouth. Get medical assistance.

**Eye Contact:** In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical help.

**Skin Contact:** Immediately wash with soap and water. Seek medical assistance for irritation or any other symptoms.

**Notes To Physician:** Treat accordingly to symptoms present.

## SECTION V FIRE FIGHTING MEASURES

**Flash Point:** 31° C or 88° F  
Setaflash Closed Cup  
ASTMD3278

**Flammable Limits in Air:** Lower: 1.5%  
Upper: 13.74%

**Auto-ignition temperature:** NA

**Extinguishing Media:** Water fog or fine spray. Dry chemical fire extinguishers. Carbon dioxide fire extinguishers. Foam. Do not use direct water stream. Straight or direct water streams may not be effective to extinguish fire. Alcohol resistant foams (ATC type) are preferred. General purpose synthetic foams (including AFFF) or protein foams may function, but will be less effective.

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<b>Special Fire Fighting Procedures:</b>	Keep people away. Isolate fire and deny unnecessary entry. Stay upwind. Keep out of low areas where gases (fumes) may accumulate. Water may not be effective in extinguishing fire. Use water spray to cool fire exposed containers and fire affected zone until fire is out and danger of reignition has passed. Fight fire from protected location or safe distance. Consider the use of unmanned hose holders or monitor nozzles. Immediately withdraw all personnel from the area in case of rising sound from venting safety device. Burning liquids may be extinguished by dilution with water. Do not use direct water stream. May spread fire. Eliminate ignition sources. Move container from fire area if this is possible without hazard. Burning liquids may be moved by flushing with water to protect personnel and to minimize property damage.
<b>Special Protective Equipment for Firefighters:</b>	Wear positive-pressure self-contained breathing apparatus (SCBA) and protective fire fighting clothing (includes fire fighting helmet, coat, trousers, boots and gloves). If protective equipment is not available or not used, fight fire from a protected location or safe distance.
<b>Unusual Fire and Explosion Hazards:</b>	Container may rupture from gas generation in a fire situation. Violent steam generation or eruption may occur upon application of direct water stream to hot liquids. Vapors are heavier than air and may travel long distance and accumulate in low lying areas. Ignition and/or flashback may occur. Flammable mixtures may exist within the vapor space of containers at room temperature. Flammable concentrations of vapor may accumulate at temperatures above flash point: see Section 9.
<b>Hazardous Combustion Products:</b>	During a fire, smoke may contain the original material in addition to combustion products of varying composition which may be toxic and/or irritating. Combustion products may include but are not limited to: Carbon monoxide. Carbon dioxide.

## SECTION VI ACCIDENTAL RELEASE MEASURES

<b>General Information:</b>	Use proper personal protective equipment as indicated in Section 8.
<b>Spills/Leaks:</b>	Absorb spill with inert material (e.g. vermiculite, sand or earth), then place in suitable container. Remove all sources of ignition. Provide ventilation.

## SECTION VII HANDLING AND STORAGE

<b>Handling:</b>	Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Avoid contact with eyes, skin, and clothing. Keep container tightly closed. Avoid ingestion and inhalation. Use with adequate ventilation. Keep away from heat and flame.
<b>Storage:</b>	Keep away from sources of ignition. Store in a tightly closed container. Store in a cool, dry, well-ventilated area away from incompatible substances.

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## SECTION VIII EXPOSURE CONTROLS AND PERSONAL PROTECTION

**Engineering Controls:** Maintain vapor levels below the recommended TLV's and/or PEL's by use of adequate local or general exhaust system at product transfer/use areas.

<u>Chemical Name</u>	<u>ACGIH</u>	<u>EU IOELV</u>	<u>EU IOELV</u>
1-Methoxy-2-propanol	100 ppm (TWA)	100 ppm (TWA)-Skin	150 ppm (STEL)-Skin

### Personal Protective Equipment

**Eyes:** Wear chemical splash goggles.

**Skin:** Wear appropriate protective gloves to prevent skin exposure.

**Clothing:** Wear appropriate protective clothing to prevent skin exposure.

**Respirators:** A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements or European Standard EN 149 must be followed whenever workplace conditions warrant respirator use.

## SECTION IX PHYSICAL AND CHEMICAL PROPERTIES

<b>Physical State:</b>	Liquid	<b>Appearance:</b>	Dark Blue Color
<b>Odor:</b>	Ether	<b>Solubility in Water:</b>	Partially Soluble
<b>pH:</b>	NA	<b>Vapor Pressure:</b>	1.16 kPa @ 20° C
<b>Vapor Density:</b>	3.12 (air = 1)	<b>Boiling Point:</b>	120° C
<b>Freezing/Melting Pt:</b>	-97° C	<b>Flash Point:</b>	31° C/88° F Setafash Closed Cup ASTMD3278
<b>Specific Gravity/Density:</b>	<1	<b>Flammable Limits in Air:</b>	<b>Lower:</b> 1.5% <b>Upper:</b> 13.74%

## SECTION X STABILITY AND REACTIVITY

<b>Chemical Stability:</b>	Stable at room temperature in closed containers under normal storage and handling conditions.
<b>Conditions to Avoid:</b>	Ignition sources, moisture, excess heat
<b>Incompatibility with Other Materials:</b>	Strong oxidizing agents.
<b>Hazardous Decomposition/By-Products:</b>	Carbon monoxide, carbon dioxide.
<b>Hazardous Polymerization:</b>	Does NOT polymerize

## SECTION XI TOXICOLOGICAL INFORMATION

### ACUTE TOXICITY

<i>LD<sub>50</sub> 6 h (inhalation – rat):</i>	>7500 ppm
<i>LD<sub>50</sub> (skin – rabbit):</i>	1300 mg/kg

### SENSITIZATION

*Skin Contact:* Did not cause allergic skin reactions when tested in quinea pigs.

### REPEATED DOSE TOXICITY

Symptoms of excessive exposure may be anesthetic or narcotic effects; dizziness and drowsiness may be observed. In animals, effects have been reported on the following organs: Kidney. Liver.

### CARCINOGENICITY

Did not cause cancer in laboratory animals.

### DEVELOPMENTAL TOXICITY

Has been toxic to the fetus in lab animals at doses toxic to the mother. Did not cause birth defects in laboratory animals.

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## **REPRODUCTIVE TOXICITY**

In laboratory animal studies, effects on reproduction have been seen only at doses that produced significant toxicity to the parent animals.

## **GENETIC TOXICITY**

In vitro genetic toxicity studies were negative.

## **SECTION XII ECOLOGICAL INFORMATION**

### **Ecotoxicity**

Material is not classified as dangerous to aquatic organisms (LC50/EC50/TC50 greater than 100 mg/L in most sensitive species)

## **SECTION XIII DISPOSAL INFORMATION**

This product, when being disposed, should be treated as a hazardous waste according to EC Directive 91/689/EEC. Any disposal practices must be in compliance with all national and provincial laws and any municipal or local by-laws governing hazardous waste. For used, contaminated and residual materials additional evaluations may be required. Do not dump into any sewers, on the ground, or into any body of water. The information offered here is for the product as shipped. Use and/or alterations to the product such as mixing with other materials may significantly change the characteristics of the material and alter the RCRA classification and the proper disposal method.

## **SECTION XIV TRANSPORT INFORMATION**

	<b>US DOT</b>	<b>IATA</b>
<b>Shipping Name:</b>	Resin Solution	Resin Solution
<b>Hazard Class:</b>	3	3
<b>UN Number:</b>	UN1866	UN1866
<b>Packing Group:</b>	III	III

## **SECTION XV REGULATORY INFORMATION**

### **US FEDERAL**

#### **TSCA**

All ingredients in PR1-400DR are listed on the TSCA inventory.

#### **Health & Safety Reporting List**

None of the chemicals are on the Health & Safety Reporting List.

#### **Chemical Test Rules**

None of the chemicals in this product are under a Chemical Test Rule.

#### **Section 12b**

None of the chemicals are listed under TSCA Section 12b.

#### **TSCA Significant New Use Rule**

None of the chemicals in this material have a SNUR under TSCA.

#### **SARA Section 302 Extremely Hazardous Substances**

None of the chemicals in this product have a TPQ.

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## ADDITIONAL REGULATORY INFORMATION

SOCMI Chemical

## FOREIGN INVENTORY STATUS

Canadian DSL (Domestic Substance List).

EINECS (European Inventory of Existing Commercial Chemical Substances).

Mexico Hazard Identification Guidance List (NOM-018-STPS-2000).

## SECTION XVI OTHER INFORMATION

UEI™ Systems provides the information contained herein in good faith. The information is believed to be correct. However it is not all-inclusive and should be used only as a guide. Individuals receiving the information must exercise their independent judgement in determining its appropriateness for a particular purpose. UEI™ Systems shall not be held liable for any damage resulting from handling or from contact with the product listed herein.