

## Section 1 Chemical Product and Company Identification

<b>Product Identifier</b>	GPC® AquaMulsion® Negative Photoresist
<b>General Use</b>	Used in photoengraving
<b>Company</b>	UEI Systems®, a UEI Group Company
<b>Address</b>	9090 Nieman Road Overland Park, KS 66214 USA
<b>Phone</b>	+1 800 221 9059 or +1 913 541 0503
<b>Emergency Contact Number</b>	CHEMTREC – Available 24 hours/day, 7 days/week Domestic North America: +1 800 424 9300 International: +1 703 527 3887

## Section 2 Hazards Identification

### GHS Classification

Hazard Class	Hazard Category	Route of Exposure
Acute Toxicity	4	Inhalation
Serious Eye Damage/Eye Irritation	2B	–
Skin Irritation	2	–
Flammable Liquids	3	–

### GHS Labeling

**Contains** 1-Methoxy-2-Hydroxypropane (107-98-2)



**Warning**

**Hazard Statements** Harmful if inhaled  
Causes skin irritation  
Causes eye irritation  
Flammable liquid and vapor

**Precautionary Statements** Avoid breathing dust/fume/gas/mist/ vapors/spray  
Use only outdoors or in a well-ventilated area  
Wash hands thoroughly after handling  
Wear protective gloves  
Keep away from heat/sparks/open flames/hot surfaces. No smoking  
Keep container tightly closed  
Ground/Bond container and receiving equipment  
Use explosion-proof electrical/ventilating/ lighting/equipment  
Use only non-sparking tools  
Take precautionary measures against static discharge

## Section 2 Hazards Identification, continued

- Response** **If inhaled:** Remove person to fresh air and keep comfortable for breathing. Call a poison center/doctor if you feel unwell.  
**If skin irritation occurs:** Get medical advice/attention. Take off contaminated clothing and wash it before reuse.  
**If in eyes:** Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
**If eye irritation persists:** Get medical advice/attention.  
**If on skin (or hair):** Take off immediately all contaminated clothing. Rinse skin with water/shower.  
**In case of fire:** Use Alcohol foam, dry chemical, or carbon dioxide to extinguish. Water may be ineffective.
- Storage** Store locked up. Store in a well-ventilated place. Keep cool.
- Disposal** Dispose of contents/container in accordance with local/regional/national/international regulations

## Section 3 Hazardous Ingredients / Identity Information

Hazardous Components	CAS No.	%	OSHA (PEL/TWA)	ACGIH TLV
1-Methoxy-2-propanol	107-98-2	>50%	100 ppm	150 ppm
Acrylates	–	10–15%	NA	NA

## Section 4 First Aid Measures

- In all cases, call a physician immediately.**
- Ingestion** Do not induce vomiting unless directed to do so by a physician.
- Inhalation** Remove to fresh air. If not breathing, give artificial respiration, preferably mouth-to-mouth. If breathing is difficult, give oxygen.
- Eye Contact** Immediately flush eyes with large amounts of water for at least 15 minutes.
- Skin Contact** Immediately flush skin with large amounts of water for at least 15 minutes while removing contaminated clothing and shoes. Remove contaminated clothing and shoes.

## Section 5 Firefighting Measures

- Flash Point** 93°F Setflash closed cup.
- Flammable Limits** LEL: 1.6 UEL: 13.80
- Extinguishing Media** Water spray, dry chemical, or Carbon Dioxide foam
- Special Firefighting Procedures** Wear self-contained breathing apparatus. Material is volatile and gives off vapors which may travel along the ground or move considerable distances to a source of ignition where they may ignite and flash back.
- Unusual Fire and Explosion Hazards** Hazardous decomposition products may be formed. Use water spray to cool containers. Avoid spreading burning liquid.

**Section 6 Accidental Release Measures**

<b>Personal Precautions</b>	Eliminate potential sources of ignition and wear protective clothing to clean up spill
<b>Environmental Precautions</b>	Prevent runoff to sewers or waterways
<b>Methods for Cleaning Up</b>	Use absorbent material and place in non-leaking containers and tightly seal

**Section 7 Handling and Storage**

<b>Handling Precautions</b>	Minimize breathing of vapors and avoid prolonged or repeated contact with skin and eyes. Wear proper protective equipment. If ventilation is not sufficient, wear proper respiratory equipment. Do not burn or torch cut on empty containers.
<b>Storage Requirements:</b>	Store in a cool dry, well-ventilated area

**Section 8 Component Exposure Limits**

<b>ENGINEERING CONTROLS</b>	
<b>Ventilation</b>	Provide general or local exhaust ventilation systems to maintain airborne concentrations below
<b>ADMINISTRATIVE CONTROLS</b>	
<b>Respiratory Protection</b>	Follow OSHA respirator regulations (29 CFR 1910.134) and, if necessary, wear a MSHA/ NIOSH-approved respirator
<b>Protective Clothing/Equipment</b>	Wear chemically protective gloves, boots, and aprons to prevent prolonged or repeated skin contact. Wear protective eyeglasses or chemical safety goggles, per OSHA eye and face protection regulations (29 CFR 1910.133)

**Section 9 Physical and Chemical Properties**

<b>Appearance/Odor</b>	Dark pink or violet with organic odor	<b>Odor Threshold</b>	10 ppm
<b>pH</b>	Acidic as 1:1 mix in water	<b>Boiling Point</b>	246° F (119° C)
<b>Melting Point</b>	-139° F (-95° C)	<b>Solubility (H<sub>2</sub>O)</b>	Partial
<b>Specific Gravity</b>	0.9620 at 20° C	<b>Density</b>	7.65lb/gal
<b>Octanol/H<sub>2</sub>O Coefficient</b>	-0.49	<b>Evaporation Rate</b>	No data
<b>Molecular Weight</b>	90.13	<b>Decomposition Temperature</b>	No data
<b>Auto Ignition</b>	270° C at 1013 hPa	<b>Lower Flammability Limit</b>	150° C in air at 1.6
<b>Flash Point</b>	93° F (34° C)	<b>Upper Flammability Limit</b>	150° C in air at 13.80
<b>Vapor Density</b>	3.12 (Air= 1)	<b>Vapor Pressure</b>	8 mm Hg at 25° C
<b>VOC</b>	No data	<b>Flammability Class</b>	3.3
<b>Viscosity</b>	1.81 mPa-s at 20° C		

**Section 10 Chemical Stability and Reactivity**

<b>Stability</b>	Stable
<b>Conditions to Avoid</b>	Ignition sources, moisture, excess heat
<b>Incompatibility</b>	Strong oxidizing agents
<b>Hazardous Decomposition/By-Products</b>	Carbon Monoxide, Carbon Dioxide
<b>Hazardous Polymerization</b>	Will not occur

**Section 11 Toxicological Information**

<b>Likely routes of exposure</b>	Occupational exposure may occur through inhalation and dermal contact with this compound.
<b>Acute toxicity</b>	<u>107-98-2</u>
<b>Acute Oral LD50</b>	5660 mg/kg (rat)
<b>Acute Dermal LD50</b>	13000 mg/kg (rabbit)
<b>Acute Inhalation LC50</b>	54.6 mg/l (rat)
<b>Carcinogenicity</b>	There are no known reports of carcinogenicity of ingredients
<b>Target Organ Effects</b>	May cause drowsiness or dizziness
<b>Reproductive Toxicity</b>	In laboratory animal studies, effects on reproduction have been seen only at doses that produced significant toxicity to the parent animals.
<b>Teratogenicity</b>	In vitro genetic toxicity studies were negative

**Section 12 Ecological Information**

<b>Ecotoxicity</b>	No data is available on this product. Individual constituents are as following:
<b>1-Methoxy-2-Propanol</b>	
<b>Toxicity</b>	
<b>Biodegradation</b>	Aerobic, > 70%, Exposure time: 29 days (Readily biodegradable)
<b>Acute and Prolonged Toxicity to Fish</b>	LC50: 4,600 – 10,000 mg/l (Golden orfe ( <i>Leuciscus idus</i> ), 96 h) LC50: 20,800 mg/l (Fathead minnow ( <i>Pimephales promelas</i> ), 96 h)
<b>Acute Toxicity to Aquatic Invertebrates</b>	EC50: > 500 mg/l (Water flea ( <i>Daphnia magna</i> ), 24 h)
<b>Toxicity to Aquatic Plants</b>	EC50: > 1,000 mg/l, End Point: growth (Green algae ( <i>Selenastrum capricornutum</i> ), 7 days)
<b>Toxicity to Microorganisms</b>	EC50: > 5,000 mg/l, (Other bacteria, 48 h)
<b>Persistence/Degradability</b>	No evidence was found to indicate that there is any biotransformation process for copper compounds.
<b>Bioaccumulative Potential</b>	The potential for bioconcentration in aquatic organisms is low(SRC).
<b>Mobility in Soil</b>	1-Methoxy-2-Hydroxypropane is expected to have very high mobility in soil.

**Section 13 Disposal Considerations**

<b>Disposal Instructions</b>	Dispose in accordance with federal, state, provincial, and local regulations. Regulations may also apply to empty containers. The responsibility for proper waste disposal lies with the owner of the waste.
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**Section 14 Transportation Information**

<b>DOT (US)</b>		<b>IMDG</b>		<b>IATA</b>	
<b>UN number</b>	3092	<b>UN number</b>	3092	<b>UN number</b>	3092
<b>Class</b>	3	<b>Class</b>	3	<b>Class</b>	3
<b>Packing group</b>	III	<b>Packing group</b>	III	<b>Packing group</b>	III
<b>Proper shipping name</b>		<b>EMS-No</b>	F-E, S-D	<b>Proper shipping name</b>	
1-Methoxy-2-Propanol Solution		<b>Proper shipping name</b>		1-Methoxy-2-Propanol Solution	
<b>Reportable Quantity (RQ)</b>	NA	<b>Proper shipping name</b>			
		1-Methoxy-2-Propanol Solution			
<b>Marine pollutant</b>	No	<b>Marine pollutant</b>	No		
<b>Poison Inhalation Hazard</b>	No				

**Section 15 Regulatory Information**

**Component Analysis – State**

**SARA 302 Components**

**SARA 302** No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

**SARA 313 Components**

**SARA 313** This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

**SARA 311/312 Hazards**

Fire Hazard, Acute Health Hazard, Chronic Health Hazard

**TSCA<sup>4</sup> - Toxic Substances Control Act**

Listed

	<b>Right To Know Components</b>	<b>CAS-No</b>	<b>Revision Date</b>
<b>Massachusetts</b>	Monopropylene glycol methyl ether	107-98-2	1994-04-01
<b>Pennsylvania</b>	Monopropylene glycol methyl ether	107-98-2	1994-04-01
<b>New Jersey</b>	Monopropylene glycol methyl ether	107-98-2	1994-04-01

**California Prop 65**

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

**Section 16 Other Information**

UEI Systems® provides the information contained herein in good faith. It is believed to be correct. However it is not all-inclusive and should be used only as a guide. Individuals receiving this 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 this product. All information appearing herein is based upon data obtained from the manufacturer and/or recognized technical sources.

**Abbreviations** PEL Permissible Exposure Limit  
TLV Threshold Limit Value

**Section 16**

**Other Information, continued**

- End Notes**
1. SARA - Signed into law in 1986, the Superfund Amendments and Reauthorization Act (SARA) is an extension of CERCLA, and is intended to encourage and support local and state emergency planning efforts. SARA provides citizens and local governments with information about potential chemical hazards, and calls for facilities that store hazardous materials to provide officials and citizens with data on the type and amount on hand at specific locations. This field states whether a material is listed or not listed in section 372.65 of SARA. EHS - This states if a material is listed or not listed in Appendix B to part 355, the SARA Extremely Hazardous Substances (EHS) section. RQ is the reportable quantity. TPQ is the Threshold Planning Quantity.
  2. RCRA - The Resource Conservation and Recovery Act enacted in 1976 and subsequently amended, controls solid-waste disposal and encourages recycling. This states whether a material is listed or not listed under this regulation. If listed the Hazardous Waste Number and waste characterization assigned by RCRA is also provided.
  3. CERCLA - Enacted in 1980 and amended thereafter, the Comprehensive Environmental Response, Compensation, and Liability Act provides for identification and cleanup of hazardous materials released on land, into the air, waterways, and groundwater. It covers areas affected by newly released materials and older leaking or abandoned dump sites. This states whether a material is listed or not listed in CERCLA Table 302.4. If listed the section(s) that it is listed under and the Reportable Quantity (RQ) are also provided.
  4. TSCA - The Toxic Substances Control Act controls the exposure to and use of raw industrial chemicals not subject to other laws. This states whether the chemical is listed or not listed under this regulation.

**Evidence** <http://toxnet.nlm.nih.gov/>

**Revision** 29 October 2015

**Supersedes** 22 October 2015