

9090 Nieman • Overland Park, KS 66214 • (913) 541-0503 • Toll Free: 800-221-9059 • sales@ueisystems.com • ueisystems.com

Section 1 Chemical Product and Company Identification

Product Identifier GPC® AquaMulsion® Positive Photoresist

General Use Used in photoengraving

Company UEI Systems®, a UEI Group Company

Address 9090 Nieman Road

Overland Park, KS 66214 USA

Phone +1 800 221 9059 or +1 913 541 0503

Emergency Contact Number 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); 1- Propoxy-2-Propanol (1569-01-3)





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



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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.

Store locked up. Store in a well-ventilated place. Keep cool. Storage

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
	Metal	1-Methoxy-2-propanol	107-98-2	>50%	100 ppm	150 ppm
		1-Propoxy-propanol-2	1569-01-3	>10%	NA	NA
		Resins	_	_	NA	NA
		Sensitizers	_	_	NA	NA
		Dyes	_	_	NA	NA

Section 4	First Aid Measures

In all cases, call a physician immediately.

Inhalation Remove to fresh air. If not breathing, give artificial respiration.

If breathing is difficult, give oxygen.

Do not induce vomiting unless directed to do so by a physician. Ingestion

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 Setaflash 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.

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Section 6	Accidental Releas	se Measures			
Personal Precautions	Eliminate potential sources of ignition and wear protective clothing to clean up spill				
Environmental Precautions	Prevent runoff to sew	ers or waterways			
Methods for Cleaning Up	Use absorbent materi	al and place in non-leaking conta	iners and tightly seal		
Section 7	Handling and Sto	prage			
Handling Precautions Storage Requirements:s	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. Store in a cool dry, well-ventilated area				
	•				
Section 8	Component Expo	osure Limits			
ENGINEERING CONTROLS Ventilation	Provide general or local exhaust ventilation systems to maintain airborne concentrations below				
ADMINISTRATIVE CONTROLS Respiratory Protection	Follow OSHA respirator regulations (29 CFR 1910.134) and, if necessary, wear a MSHA/ NIOSH-approved respirator				
Protective Clothing/Equipment	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 Che	mical Properties			
Appearance/Odor	Clear liquid/Sweet eth	ner-like Odor Threshold	10 ppm		
рН	No data	Boiling Point	246° F (119° C)		
Melting Point	-139° F (-95° C)	Solubility (H ₂ O)	Insoluble in water		
Specific Gravity	0.9620 at 20° C	Density	7.65lb/gal		
Octanol/H ₂ O Coefficient	-0.49	Evaporation Rate	No data		
Molecular Weight	90.13	Decomposition Temperature	No data		
Auto Ignition	270° C at 1013 hPa	Lower Flammability Limit	150° C in air at 1.6		
Flash Point	93° F (34° C)	Upper Flammability Limit	150° C in air at 13.80		
Vapor Density	3.11 (Air= 1)	Vapor Pressure	12.5 mm Hg at 25°C		
VOC	No data	Flammability Class	3.3		
Viscosity	1.81 mPa-s at 20° C				
Section 10	Chemical Stabilit	y and Reactivity			
Stability	Stable				
Conditions to Avoid	Ignition sources, moisture, excess heat				
Incompatibility	Strong oxidizing agen	nts			
Hazardous Decomposition/					

Hazardous Polymerization Will not occur

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Section 11	Toxicological Inform	nation			
Likely routes of exposure	Occupational exposure may occur through inhalation and dermal contact with this compound.				
Acute toxicity					
	107-98-2	1569-01-3			
Acute Oral LD50	5660 mg/kg (rat)	2504 mg/kg (rat)			
Acute Dermal LD50	13000 mg/kg (rabbit)	3550 mg/kg (rabbit)			
Acute Inhalation LC50	54.6 mg/l (rat)	NA			
Carcinogenicity	There are no known repo	rts of carcinogenicity of ingredients			
Target Organ Effects	May cause drowsiness or	dizziness			
Reproductive Toxicity	In laboratory animal studies, effects on reproduction have been seen only at doses that produced significant toxicity to the parent animals.				
Teratogenicity	In vitro genetic toxicity st	In vitro genetic toxicity studies were negative			
Section 12	Ecological Informati	on			
Ecotoxicity	No data is available on this product. Individual constituents are as following:				
1-Methoxy-2-Propanol					
Toxicity					
Biodegradation	Aerobic, > 70%, Exposure	time: 29 days (Readily biodegradable)			
Acute and Prolonged Toxicity to Fish	LC50: 4,600 – 10,000 mg/	(Golden orfe (<i>Leuciscus idus</i>), 96 h)			
	LC50: 20,800 mg/l (Fathead minnow (<i>Pimephales promelas</i>), 96 h)				
Acute Toxicity to Aquatic Invertebrates	EC50: > 500 mg/l (Water flea (<i>Daphnia magna</i>), 24 h)				
Toxicity to Aquatic Plants	EC50: > 1,000 mg/l, End Point: growth (Green algae (Selenastrum capricornutum), 7 days)				
Toxicity to Microorganisms	EC50: > 5,000 mg/l, (Other bacteria, 48 h)				
Persistence/Degradability	No evidence was found to indicate that there is any biotransformation process for copper compounds.				
Bioaccumulative Potential	The potential for bioconcentration in aquatic organisms is low(SRC).				
Mobility in Soil	1-Methoxy-2-Hydroxypro	pane is expected to have very high mobility in soil.			
Section 13	Disposal Considerat	ions			
Disposal Instructions	•	th federal, state, provincial, and local regulations. Regulations may ainers. The responsibility for proper waste disposal lies with the			

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Section 14	Trans	portation Information				
DOT (US)		IMDG		IATA		
UN number	3092	UN number	3092	UN number	3092	
Class	3	Class	3	Class	3	
Packing group	Ш	Packing group	III	Packing group	II	
Proper shipping name		EMS-No	F-E, S-D	Proper shipping name		
1-Methoxy-2-Propanol Solution	า	Proper shipping name		1-Methoxy-2-Propanol	Solution	
Reportable Quantity (RQ)	NA	1-Methoxy-2-Propanol Sol	ution			
Marine pollutant	No	Marine pollutant	No			
Poison Inhalation Hazard	No					
Section 15	Regu	latory 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		naterial does not contain any ch I the threshold (De Minimis) rep				
SARA 311/312 Hazards		ızard, Acute Health Hazard, Chro	9	•		
TSCA⁴ - Toxic Substances Control Act	Listed					
	Riaht 1	o Know Components	CAS-No	Revision Date		
Massachusetts		propylene glycol methyl ether	107-98-2	1994-04-01		
Pennsylvania		propylene glycol methyl ether	107-98-2	1994-04-01		
New Jersey		propylene 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	Othe	r Information				
	Howev inform	tems® provides the information of ver it is not all-inclusive and sho ation must exercise their indep articular purpose. UEI Systems s	uld be used or endent judger	nly as a guide. Individuals re ment in determining its app	eceiving this propriateness	

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Abbreviations PEL Permissible Exposure Limit

TLV Threshold Limit Value



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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