Safety
Data
Sheet

U·E·I Systems
A UEI® GROUP COMPANY

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® Negative Photoresist

General Use Used in photoengraving

Company Address UEI Systems®, a UEI Group Company
9090 Nieman Road
Overland Park, KS 66214 USA

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

Emergency Contact Number CHEMTEL – Available 24 hours/day, 7 days/week
Domestic North America: +1 800 255 3924
International: +1 813 248 0585

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

U·E·I Systems
A UEI® GROUP COMPANY

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

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 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.

U·E·I Systems
A UEI® GROUP COMPANY

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

Section 6 Accidental Release Measures

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

Section 7 Handling and Storage

Handling Precautions	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.
Storage Requirements:s	Store in a cool dry, well-ventilated area

Section 8 Component Exposure 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 Chemical Properties

Appearance/Odor	Dark pink or violet with organic odor	**Odor Threshold**	10 ppm
pH	Acidic as 1:1 mix in water	**Boiling Point**	246° F (119° C)
Melting Point	-139° F (-95° C)	**Solubility (H_2O)**	Partial
Specific Gravity	0.9620 at 20° C	**Density**	7.65lb/gal
Octanol/H_2O 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	3.12 (Air= 1)	**Vapor Pressure**	8 mm Hg at 25^{0}C
VOC	No data	**Flammability Class**	3.3
Viscosity	1.81 mPa-s at 20° C		

Section 10 Chemical Stability and Reactivity

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

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

Section 11 Toxicological Information

Likely routes of exposure Occupational exposure may occur through inhalation and dermal contact with this compound.

Acute toxicity

	107-98-2
Acute Oral LD50	5660 mg/kg (rat)
Acute Dermal LD50	13000 mg/kg (rabbit)
Acute Inhalation LC50	54.6 mg/l (rat)

Carcinogenicity There are no known reports 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 studies were negative

Section 12 Ecological Information

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/l (Golden orfe (*Leuciscus idus*), 96 h)

LC50: 20,800 mg/l (Fathead minnow (*Pimephales promelas*), 96 h)

Acute Toxicity to Aquatic Invertebrates EC50: > 500 mg/l (Water flea (*Daphnia magna*), 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-Hydroxypropane is expected to have very high mobility in soil.

Section 13 Disposal Considerations

Disposal Instructions 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.

U·E·I Systems
A UEI® GROUP COMPANY

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

Section 14 Transportation Information

DOT (US)		IMDG		IATA	
UN number	3092	**UN number**	3092	**UN number**	3092
Class	3	**Class**	3	**Class**	3
Packing group	III	**Packing group**	III	**Packing group**	III
Proper shipping name		**EMS-No**	F-E, S-D	**Proper shipping name**	
1-Methoxy-2-Propanol Solution		**Proper shipping name**		1-Methoxy-2-Propanol Solution	
Reportable Quantity (RQ)	NA	1-Methoxy-2-Propanol Solution			
Marine pollutant	No	**Marine pollutant**	No		
Poison Inhalation Hazard	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[4] - Toxic Substances Control Act Listed

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

U·E·I Systems
A UEI® GROUP COMPANY

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

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 20 April 2020

Supersedes 29 October 2015