

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

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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

Section 2 Hazards Identification, continued

Response	<p>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.</p>
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
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.
Ingestion	Do not induce vomiting unless directed to do so by a physician.
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.

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:	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	Clear liquid/Sweet ether-like	Odor Threshold	10 ppm
pH	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 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

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	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 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 (<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 (<i>Selenastrum capricornutum</i>), 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.
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Section 14 Transportation Information

DOT (US)		IMDG		IATA	
UN number	1866	UN number	1866	UN number	1866
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	
Resin Solution		Proper shipping name		Resin Solution	
Reportable Quantity (RQ)	NA	Resin 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

TSCA⁴ - 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

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 21 April 2020

Supersedes 21 July 2016