

AZ(R) EXP PLP(TM) 100XT Photoresist

03/18/03

<i>Safety</i>	<i>Chemistry</i>	<i>Management</i>
Protective	Synonyms	Responsible
Toxicity	Incompatible	Manufacturer and Order Number
Health Effects	Structure	
PEL/TWA	Disposal	
NFPA	Hazardous Decomposition	
	Physical Data	

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Protective Equipment



Splash Goggles



Gloves



Protective Clothing



Dust Respirator



Vapor Respirator



Air Line Hood or Mask

Eyes

- Lab grade goggles are recommended.

Skin

- Disposable latex gloves should be worn.

Respiratory

- Use adequate ventilation.
- Do not breath dust.

Special Precautions

- Avoid contact with eyes.
- Avoid prolonged or repeated contact with skin.
- Do not breath dust.
- Wash thoroughly after handling.

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Toxicity

Ingredient Toxicity Data

<u>Chemical Name & CAS Number</u>	<u>Weight Percentage</u>	<u>Oral rat LD50</u>	<u>Skin rbt LD50</u>	<u>inh rat LC50</u>
1-Methoxy-2-propanol 000107-98-2	40	5000 mg/kg	13,000 mg/kg	10,000 ppm

1-Methoxy-2-propanol acetate 000108-65-6	10	8.5 g/kg/male, 10.0 g/kg/female	>5.0 g/kg	>4350 ppm
Trade Secret: Cresol novolak resin	40-45			
Trade Secret: Diazonaphthoquinonesulfonic esters	<5			
Trade Secret: Cresol novolak resin	<5			

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Health

Effects:

- **Skin:** Causes skin irritation, skin absorption. May be harmful if absorbed through skin.
- **Eye:** Causes eye irritation.
- **Inhalation:** May be harmful if inhaled. Vapor mist is irritating to mucous membranes and upper respiratory tract.
- **Ingestion:** Toxic if swallowed.

First Aid:

- **Inhalation:** Remove to fresh air. Consult physician if irritation occurs.
- **Skin/Eyes:** Immediately flush eyes with water for 15 minutes. Call physician. Remove contaminated clothing. Wash skin with soap and plenty of water.
- **Ingestion:** Give large quantities of water, or milk. Call physician immediately.

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PEL/TWA

<u>Chemical name & CAS number</u>	<u>Weight percentage</u>	<u>Manufacturer's TWA TLV</u>	<u>ACGIH TWA TLV</u>	<u>OSHA PEL</u>	<u>NIOSH REL</u>	<u>AIHA WEEL</u>
1-Methoxy-2-propanol 000107-98-2	40		100ppm (369 mg/m3)		100 ppm (360 mg/m3)	
1-Methoxy-2-propanol acetate 000108-65-6	10	100 ppm				100 ppm (541 mg/m3)

<u>Chemical name & CAS number</u>	<u>Weight percentage</u>	<u>Manufacturer's TWA TLV</u>	<u>ACGIH TWA TLV</u>	<u>OSHA PEL</u>	<u>NIOSH REL</u>	<u>AIHA WEEL</u>
Trade secret: cresol novolak resin	40-45					

Trade secret:						
Diazonaphthoquinonesulfonic esters	<5					
Trade Secret: Cresol novolak resin	<5					

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Fire Hazard Data

- **Flash point:** 96 deg F, Closed Cup
- **Extinguishing Media:** water spray, carbon dioxide, dry chemical powder or alcohol foam.
- **Unusual Hazards:** may emit toxic fumes in fire, solvent vapors.

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NFPA

- Information not provided by the manufacturer.

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Synonyms

- Liquid Positive Photoresist

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Incompatibles

- Strong oxidizing agents.
- Strong acids.
- alkaline materials.

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Structure

Composition:

<u>Chemical name & CAS number</u>	<u>Weight percentage</u>	<u>Hazardous?</u>	<u>NJ Trade secret #</u>	<u>Ingredient synonyms</u>	<u>Other information</u>
1-Methoxy-2-propanol 000107-98-2	40	Yes	N/A	Propylene glycol monomethyl ether PM, PGME	PA RTK list.
1-Methoxy-2-propanol acetate 000108-65-6	10	Yes	N/A	Propylene glycol monomethyl ether acetate, PGMEA, PMA	None

<u>Chemical name & CAS number</u>	<u>Weight percentage</u>	<u>Hazardous?</u>	<u>NJ Trade secret #</u>	<u>Ingredient synonyms</u>	<u>Other information</u>
Trade secret: cresol novolak resin	40-45	no	6729000004-5736P	none	trade secret per NJ/PA RTK laws
Trade secret: Diazonaphthoquinonesulfonic esters	<5	no	6729000004-5522P	none	trade secret per NJ/PA RTK laws
Trade secret: Cresol novolak resin	<5	no	6729000004-5548P	none	trade secret per NJ/PA RTK laws

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Disposal

Spill Procedures:

- Wear protective equipment
- Contain spill
- Ventilate area of spill or leak
- Remove all sparking devices or ignition sources
- Collect onto inert absorbent and place in a suitable container
- Ventilate area and wash spill site after material pickup is complete.

Disposal:

- Dispose of in accordance with all federal, state, and local regulations.

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Hazardous Decomposition

- Information not provided by the manufacturer.

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Physical Data

- Appearance: Clear amber red liquid
- Odor: Strong characteristic odor
- Physical state: Liquid with dissolved solids
- Vapor pressure: 9.9 torr
- Boiling point: Begins at 155 C
- Specific gravity: 1.1
- VOC: 472 g/L
- % volatile: 51%

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Manufacturer

Clariant Corporation, AZ Electronic Materials

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Somerville, NJ 08876-1258

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Customer Service: (800) 515-4164

Emergency-CHEMTREC: (800)424-9300

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