Hoechst Celanese Corporation AZ Photoresist Products P.O. Box 3700 70 Meister Avenue Somerville, NJ 08876-1258

Material Safety Data Sheet

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CHEMTREC (800) 424-9300 HOECHST CELANESE (908) 231-5423 RMATION CALL: (800) 235-2637 THE EMERGENCY PHONE NUMBERS ARE: CHEMTREC FOR (NON EMERGENCY) PRODUCT INFORMATION CALL: PAGE 1 ------IDENTIFICATION------VERSION DATE: 02/15/94 DATE PRINTED: 11/17/94 PRODUCT NAME: MSDS NUMBER: 500070K4 AZ P4110 PHOTORESIST SYNONYMS: LIQUID POSITIVE PHOTORESIST CHEMICAL FAMILY: RESIN SOLUTION PERCENT: HAZARD DATA: INGREDIENT: PROPYLENE GLYCOL MONOMETHYL INHALATION, CONTACT HAZARD. 76 ETHER ACETATE, PMA, PGMEA, 1-METHOXY-2-PROPYL ACETATE, CAS# 108-65-6 COMBUSTIBLE. SEE EFFECTS OF OVEREXPOSURE OTHER: CRESOL NOVOLAK RESIN(117520-84-0) 2,1,5-DIAZONAPHTHOQUINONE ESTER PENNSYLVANIA RIGHT TO KNOW LISTING WÍTH 2,3,4-TRIHYDROXYBENZO-"OTHER" LISTINGS NOT ON ANY STATE PHENONE(5610-94-6) R-T-K LIST OR DEFINED AS HAZARDOUS PHYSICAL DATA LOW HIGH UNITS COMMENT BOILING POINT èς **BEGINS** 134 SOLUBILITY IN WATER FORMS TWO LAYERS VISCOSITY 17 **CST** 76 % VOLATILE SPECIFIC GRAVITY (WATER =1) **EVAPORATION RATE <ETHER** APPEARANCE AND ODOR: AMBER-RED LIQUID, CHARACTERISTIC ODOR. of PM CC FLASH POINT: 112 **EXTINGUISHING MEDIA:** CARBON DIOXIDE, WATER, ALCOHOL FOAM OR DRY CHEMICAL. SPECIAL PROCEDURES: USE SELF-CONTAINED BREATHING APPARATUS AND FULL PROTECTIVE CLOTHING. USE WATER SPRAY TO COOL DRUMS IN FIRE AREA. UNUSUAL HAZARDS: SOLVENT VAPORS. SEE HAZARDOUS INGREDIENTS AND HEALTH INFORMATION. EMITS TOXIC FUMES UNDER FIRE CONDITIONS. PRIMARY ROUTE OF EXPOSURE: INHALATION: YES SKIN ABSORPTION: YES INGESTION: NO ALSO SKIN AND EYE CONTACT WITH LIQUID AND VAPORS. **EFFECTS OF OVEREXPOSURE:** PGMEA CAN CAUSE SKIN, EYE AND RESPIRATORY IRRITATION. EXTREME OR PRO-LONGED EXPOSURE MAY CAUSE GASTRIC AND CENTRAL NERVOUS SYSTEM EFFECTS. PGMEA IS READILY ABSORBED THROUGH INTACT SKIN. **EXTREME OR PRO-**

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PRODUCT NAME:	MSDS NUMBER: 500070K4
AZ P4110 PHOTO	
	(CONTINUED)
TOXICITY:	ROUTE TEST DOSE UNITS COMMENTS ORAL LD50RAT 8.5 G/KG PGMEA/MALE ORAL LD50RAT 10.0 G/KG PGMEA/FEMALE DERMAL LD50RBT >5.0 G/KG PGMEA INH LC50RAT >4350 PPM PGMEA
MEDICAL CONDITIONS AGGRAVATED: PREEXISTING SKIN, EYE AND RESPIRATORY CONDITIONS MAY BE AGGRAVATED.	
CARCINOGEN:	IARC: NO NTP: NO OSHA: NO
	OCCUPATIONAL EXPOSURE LIMITS
T.L.V.: PGMEA	100 PPM
TEXT: SUGGESTED BY MANUFACTUREREMERGENCY AND FIRST AID PROCEDURE	
INHALATION: REMOVE VICTIM TO FRESH AIR. CONSULT PHYSICIAN IF IRRITATION OCCURS.	
EYE CONTACT: FLUSH THOROUGHLY WITH WATER FOR 15 MINUTES.GET IMMEDIATE MEDICAL HELP.	
SKIN CONTACT: IMMEDIATELY REMOVE CONTAMINATED CLOTHING AND WASH AFFECTED AREA THOROUGHLY WITH SOAP AND WATER. CONSULT PHYSICIAN IF EXPOSURE IS EXTENSIVE OR IRRITATION OCCURS.	
INGESTION: IF PERSON IS CONSCIOUS, GIVE WATER OR MILK TO DILUTE STOMACH CONTENTS. CONSULT PHYSICIAN.	
ADDITIONAL MEASURES: ADMINISTER OXYGEN IF THERE IS DIFFICULTY IN BREATHING.	
	REACTIVITY DATA
CHEMICAL STABIL	ITY: STABLE HAZARDOUS POLYMERIZATION: WILL NOT OCCUR
CONDITIONS TO AVOID: AVOID CONTACT WITH OXIDIZING AGENTS. AVOID CONTACT WITH ALKALINE MATERIALS. AVOID CONTACT WITH STRONG ACIDS.	
HAZARDOUS DECOMPOSITION PRODUCTS: THERMAL DECOMPOSITION MAY GENERATE CARBON DIOXIDE, CARBON MONOXIDE AND OXIDES OF NITROGEN AND SULFUR	

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THE EMERGENCY PHONE NUMBERS ARE: CHEMTREC (800) 424-9300 HOECHST CELANESE (908) 231-5423 FOR (NON EMERGENCY) PRODUCT INFORMATION CALL: (800) 235-2637 PAGE 3 PRODUCT NAME: MSDS NUMBER: 500070K4 AZ P4110 PHOTORESIST ------SPILL OR LEAK PROCEDURES/WASTE DISPOSAL-----------SPILL OR LEAK PROCEDURES: WEARING APPROPRIATE PERSONAL PROTECTIVE EQUIPMENT, CONTAIN SPILL, VENTILATE AREA OF SPILL OR LEAK
REMOVE ALL SPARKING DEVICES OR IGNITION SOURCES.
COLLECT ONTO INERT ABSORBENT. PLACE IN SUITABLE CONTAINER. WASTE DISPOSAL: DISPOSE OF OR INCINERATE IN ACCORDANCE WITH REGULATIONS.
LISTED AS A HAZARDOUS SUBSTANCE, AS DEFINED IN THE COMPREHENSIVE ENVIRONMENTAL RESPONSE, COMPENSATION, AND LIABILITY ACT OF 1980. RESPIRATORY PROTECTION:
CHEMICAL_CARTRIDGE_RESPIRATOR RECOMMENDED FOR EXPOSURES EXCEEDING TLV. SEE SPECIAL PRECAUTIONS. PROTECTIVE CLOTHING: CLOTHING SUITABLE TO PREVENT SKIN CONTACT. SAFETY GOGGLES OR FULL FACE SHIELD. RUBBER GLOVES. **ADDITIONAL PROTECTIVE MEASURES:** USE LOCAL EXHAUST VENTILATION CONTACT LENSES SHOULD NOT BE WORN WHEN WORKING WITH THIS CHEMICAL. STORE AT 30-70°F KEEP AWAY FROM HEAT SPARKS AND FLAME. STORE IN ORIGINAL CONTAINER.
TRANSPORT AND STORE UNDER DRY CONDITIONS TIGHTLY CLOSED AND PROTECTED FROM LIGHT. PRESSURE MAY BUILD UP SLOWLY IN CLOSED CONTAINERS DUE TO GRADUAL DECOMPOSITION. THIS IS ACCELERATED BY HEAT AND LIGHT WITH POSSIBLE LIBERATION OF COMBUSTIBLE SOLVENT VAPORS. ------CTHER REGULATORY CONTROLS------OTHER REGULATORY CONTROLS: THE COMPONENTS OF THIS PRODUCT ARE LISTED ON THE TSCA INVENTORY. **OSHA PHYSICAL HAZARDS:** COMBUSTIBLE LIQUID **OSHA HEALTH HAZARDS:** EYE HAZARD IRRITANT LUNG TOXIN NERVE SYSTEM TOXIN SKIN HAZARD SARA HAZARD CLASS: ACUTE: YES CHRONIC: NO FIRE HAZARD: YES PRESSURE: NO REACTIVITY: NO