

Hoechst Celanese

Hoechst Celanese Corporation
 AZ Photoresist Products
 P.O. Box 3700
 70 Melster Avenue
 Somerville, NJ 08878-1258

Material Safety Data Sheet

THE EMERGENCY PHONE NUMBERS ARE: CHEMTREC (800) 424-9300
 HOECHST CELANESE (800) 835-5235
 FOR (NON EMERGENCY) PRODUCT INFORMATION CALL: (800) 235-2637

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-----PRODUCT IDENTIFICATION-----

PRODUCT NAME:
 AZ 9260 PHOTORESIST (520 CPS)
 SYNONYMS:
 AZ EXP 9262 PHOTORESIST
 CHEMICAL FAMILY:
 RESIN SOLUTION

VERSION DATE: 04/14/97
 DATE PRINTED: 04/14/97
 MSDS NUMBER: 5000702L

-----HAZARDOUS INGREDIENTS-----

INGREDIENT: PROPYLENE GLYCOL MONOMETHYL
 ETHER ACETATE, PMA, PGMEA,
 1-METHOXY-2-PROPYL ACETATE,
 CAS# 108-65-6
 OTHER:
 CRESOL NOVOLAK RESIN (117520-84-
 0), DIAZONAPHTHOQUINONESULFONIC
 ACID ESTERS (52125-43-6)

PERCENT: 58 HAZARD DATA:
 INHALATION, CONTACT HAZARD.
 COMBUSTIBLE.
 SEE EFFECTS OF OVEREXPOSURE

NJ AND PA RIGHT-TO-KNOW LISTINGS.
 "OTHER" LISTINGS NOT ON ANY STATE
 R-T-K LIST OR DEFINED AS HAZARDOUS

-----PHYSICAL DATA-----

PHYSICAL DATA	LOW	HIGH	UNITS	COMMENT
BOILING POINT		134	°C	BEGINS FORMS TWO LAYERS
SOLUBILITY IN WATER				
% VOLATILE		58		
SPECIFIC GRAVITY (WATER =1)		1.07		ESTIMATED
EVAPORATION RATE				<ETHER CALCULATED
VAPOR PRESSURE		2.2	MM HG	CALCULATED
OTHER: VOC		621	Ø/L	CALCULATED

APPEARANCE AND ODOR:
 AMBER-RED LIQUID, CHARACTERISTIC ODOR.

-----FIRE AND EXPLOSION HAZARDS-----

FLASH POINT: 104 °F PM CC

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.

-----HEALTH INFORMATION-----

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.

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-----HEALTH INFORMATION----- (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 MANUFACTURER, BASED ON ACGIH RECOMMENDATION FOR PROPYLENE GLYCOL MONOMETHYL ETHER, WHICH WAS BASED ON SMELL AT 100PPM AND INHALATION IRRITANCY AT HIGHER LEVELS.

-----EMERGENCY 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 STABILITY: 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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-----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:
 CONSULT LOCAL, STATE AND FEDERAL REGULATIONS.
 FOR DISPOSAL, THIS MATERIAL IS A HAZARDOUS WASTE UNDER RCRA.

-----EMPLOYEE PROTECTION-----

RESPIRATORY PROTECTION:
 CHEMICAL CARTRIDGE RESPIRATOR RECOMMENDED FOR EXPOSURES EXCEEDING TLV.
 SEE SPECIAL PRECAUTIONS.

PROTECTIVE CLOTHING:
 CLOTHING SUITABLE TO PREVENT SKIN CONTACT.
 SAFETY EYEWEAR TO PROTECT AGAINST SPLASHES.
 RUBBER GLOVES.

ADDITIONAL PROTECTIVE MEASURES:
 USE LOCAL EXHAUST VENTILATION.

-----SPECIAL PRECAUTIONS-----

COMBUSTIBLE LIQUID; KEEP AWAY FROM HEAT AND FLAME.
 STORE AT 30 -- 70°F.
 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.

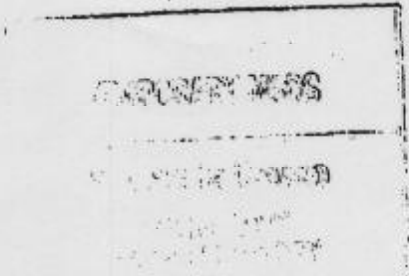
-----OTHER REGULATORY CONTROLS-----

OTHER REGULATORY CONTROLS:
 THE COMPONENTS OF THIS PRODUCT ARE LISTED ON THE TSCA INVENTORY.
 THIS PRODUCT IS NOT SUBJECT TO SARA TITLE III SECTION 313
 REPORTING REQUIREMENTS UNDER 40 CFR 372.

OSHA PHYSICAL HAZARDS:
 COMBUSTIBLE LIQUID

OSHA HEALTH HAZARDS:
 EYE HAZARD
 IRRITANT
 LUNG TOXIN
 NERVE SYSTEM TOXIN
 SKIN HAZARD

HAZARD COMMUNICATION LABEL: A



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-----OTHER REGULATORY CONTROLS----- (CONTINUED)

SARA HAZARD CLASS:
ACUTE: YES CHRONIC: NO FIRE HAZARD: YES PRESSURE: NO REACTIVITY: NO