

Material Safety Data SheetTHE EMERGENCY PHONE NUMBER IS: (201) 231-2244
FOR OTHER PRODUCT SAFETY INFORMATION CALL: (201) 231-2132

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

PRODUCT NAME:
AZ 4110 PHOTORESIST
SYNONYMS:
PHOTORESIST
CHEMICAL FAMILY:
RESIN SOLUTIONVERSION DATE: 09/06/85
DATE PRINTED: 01/03/90
MSDS NUMBER: 50007050

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

INGREDIENT:	PERCENT:	HAZARD DATA:
FORMULATION PROPRIETARY		LD 50 TWA STEL
* 2-ETHOXYETHYL ACETATE	~61	5.1 G/KG 5 PPM(OSHA=100PPM)
CELLOSOLVE ACETATE		(SKIN)
CAS# 111-15-9		
* N-BUTYL ACETATE CAS# 123-86-4	~7	14.0 G/KG 150 PPM 200 PPM
* XYLENE CAS# 1330-20-7	~7	5.0 G/KG 100 PPM 150 PPM
* PENNSYLVANIA RIGHT TO KNOW LIST		

INHALATION AND DERMAL EXPOSURE
HAZARD. SEE ALSO SECTION V.
COMBUSTIBLE.
PENNSYLVANIA RIGHT TO KNOW LISTING

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

PHYSICAL DATA	LOW	HIGH	UNITS	COMMENT
BOILING POINT	BEGINS	~ 135	°C	
SOLUBILITY IN WATER	LAYERS			PRODUCES 2
VISCOSITY		~ 16 CST		
% VOLATILE		~ 75		
SPECIFIC GRAVITY (WATER =1)		1.02		
EVAPORATION RATE		< ETHER		

APPEARANCE AND CDOR:
AMBER-RED LIQUID, CHARACTERISTIC ODORD.N.A.: DOES NOT APPLY
N.M. : NOT MEASURED

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

FLASH POINT: 108 °F PM CC

EXTINGUISHING MEDIA:
CARBON DIOXIDE, WATER, ALCOHOL FOAM OR DRY CHEMICALSPECIAL PROCEDURES:
USE SELF-CONTAINED BREATHING APPARATUS AND FULL PROTECTIVE CLOTHING.
USE WATER SPRAY TO COOL DRUMS IN FIRE AREA.UNUSUAL HAZARDS:
SOLVENT VAPORS, SEE SECTIONS II, AND V
EMITS TOXIC FUMES UNDER FIRE CONDITIONS.

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

EFFECTS OF OVEREXPOSURE:
2-ETHOXYETHYL ACETATE: LIQUID & HIGH CONCENTRATIONS OF VAPOR ARE
EYE & RESPIRATORY TRACT IRRITANTS & MAY CAUSE KIDNEY DAMAGE, NARCOSIS,
XYLENE TOXICITY: CONJUNCTIVITIS, DERMATITIS, ANOREXIA, DIFFICULT
BREATHING, NAUSEA, VOMITING, FATIGUE, HEADACHE, DIZZINESS, AND ANEMIA.

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-----HEALTH INFORMATION----- (CONTINUED)

TOXICITY TEXT:

SEE SECTION II
IN STUDIES WITH LABORATORY ANIMALS, 2-ETHOXYETHYL ACETATE
CAUSED BIRTH DEFECTS, INCREASED FETAL DEATH, DELAYED FETAL
DEVELOPMENT, BLOOD EFFECTS, TESTICULAR DAMAGE AND MALE INFERTILITY.
THIS PRODUCT IS NOT LISTED BY OSHA, NTP OR IARC AS A CARCINOGEN.

-----OCCUPATIONAL EXPOSURE LIMITS-----

TEXT:

SEE OCCUPATIONAL EXPOSURE LIMITS.

-----EMERGENCY AND FIRST AID PROCEDURE-----

INHALATION:

MOVE VICTIM TO FRESH AIR. CONSULT PHYSICIAN IF IRRITATION OCCURS.

EYE CONTACT:

FLUSH THOROUGHLY WITH WATER FOR 15 MINUTES.
CONSULT PHYSICIAN.

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

-----SPILL OR LEAK PROCEDURES/WASTE DISPOSAL-----

SPILL OR LEAK PROCEDURES:

REMOVE ALL SPARKING DEVICES OR IGNITION SOURCES.
COLLECT ONTO INERT ABSORBENT. PLACE IN SUITABLE CONTAINER.
PROVIDE VENTILATION

WASTE DISPOSAL:

LISTED AS A HAZARDOUS SUBSTANCE, AS DEFINED IN THE COMPREHENSIVE ENVIRONMENTAL
RESPONSE, COMPENSATION, AND LIABILITY ACT OF 1980.
DISPOSE OF OR INCINERATE IN ACCORDANCE WITH REGULATIONS.

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

RESPIRATORY PROTECTION:

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

Hoechst Celanese Corporation
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-----EMPLOYEE PROTECTION----- (CONTINUED)

PROTECTIVE CLOTHING:
CLOTHING SUITABLE TO PREVENT SKIN CONTACT.
SAFETY GOGGLES OR FULL FACE SHIELD.
RUBBER GLOVES.

ADDITIONAL PROTECTIVE MEASURES:
USE LOCAL EXHAUST VENTILATION.

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

STORE AT 35-70°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.
KEEP AWAY FROM HEAT SPARKS AND FLAME.

-----TRANSPORTATION REGULATORY REQUIREMENTS-----

DOT PROPER SHIPPING NAME:
COMBUSTIBLE LIQUID, N.O.S.

DOT CLASSIFICATION:
COMBUSTIBLE LIQUID.

UN/NA: NA 1993

OTHER DOT REQUIREMENTS:
NOT REGULATED BY D.O.T. IN CONTAINERS LESS THAN 110 GALLONS.

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

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