

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

TN 15465632+34

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

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

PRODUCT NAME:
AZ 400K DEVELOPER DILUTED 1:4
SYNONYMS:
PHOTORESIST DEVELOPER
CHEMICAL FAMILY:
BASIC AQUEOUS SOLUTIONVERSION DATE: 08/18/95
DATE PRINTED: 08/19/95
MSDS NUMBER: 50007075RECEIVED
SEP 11 1995

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

INGREDIENT:

POTASSIUM HYDROXIDE, CAUSTIC
POTASH, CAS # 1310-58-3

PERCENT: HAZARD DATA:

<1 LD 50 TWA
365 MG/KG 2 MG/M3 CEILINGALKALINE SOLUTION. MAY BE
HAZARDOUS BY CONTACT OR INHALATION
OF MIST.
SEE EFFECTS OF OVEREXPOSUREOTHER: WATER(7732-18-5), POTASSIUM
BORATES(20786-60-1)

NJ AND PA RIGHT-TO-KNOW LISTINGS.

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

PHYSICAL DATA	LOW	HIGH	UNITS	COMMENT
BOILING POINT		100	°C	
SOLUBILITY IN WATER				SOLUBLE
PH		12.6		
% VOLATILE		98		
SPECIFIC GRAVITY (WATER =1)		1.0		
EVAPORATION RATE				ABOUT SAME AS WATER

APPEARANCE AND ODOR:
COLORLESS LIQUID, LITTLE OR NO ODOR.

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

EXTINGUISHING MEDIA:

NON-FLAMMABLE - COMPATIBLE WITH EXTINGUISHING AGENTS.

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

PRIMARY ROUTE OF EXPOSURE: INHALATION: YES SKIN ABSORPTION: NO INGESTION: NO
ALSO LIQUID AND MIST CONTACT WITH SKIN AND EYES.

EFFECTS OF OVEREXPOSURE:

ALKALINE SOLUTION. MAY CAUSE SEVERE IRRITATION OR CAUSTIC BURNS TO
EYES AND MUCOUS MEMBRANES.
SOLUTIONS OF PH GREATER THAN 10 ARE KNOWN TO CAUSE CORNEAL DAMAGE.
D.O.T. FOUR HOUR RABBIT SKIN TEST OF THE HIGHEST COMMERCIAL
CONCENTRATION OF THIS PRODUCT WAS NEGATIVE FOR CORROSION.
TESTING OF A MORE CONCENTRATED FORM OF THIS PRODUCT SHOWED THAT
PRODUCT IS A NON-IRRITANT WHEN TESTED ON RABBIT SKIN.
TESTING OF A MORE CONCENTRATED FORM OF THIS PRODUCT SHOWED THAT
PRODUCT IS A SEVERE IRRITANT WHEN TESTED ON RABBIT EYES.

TOXICITY TEXT:

SEE HAZARDOUS INGREDIENT SECTION.

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

----- (CONTINUED) -----

MEDICAL CONDITIONS AGGRAVATED:
PREEXISTING SKIN AND EYE CONDITIONS MAY BE AGGRAVATED.

CARCINOGEN: IARC: NO NTP: NO OSHA: NO

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

TEXT:
SEE HAZARDOUS INGREDIENT SECTION.

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

INHALATION:
CONSULT PHYSICIAN IF IRRITATION OF RESPIRATORY PASSAGES OCCURS.

EYE CONTACT:
FLUSH THOROUGHLY WITH WATER FOR 15 MINUTES. GET IMMEDIATE MEDICAL HELP.

SKIN CONTACT:
IMMEDIATELY REMOVE CONTAMINATED CLOTHING AND WASH AFFECTED AREA
CONSULT PHYSICIAN IF IRRITATION OCCURS.

INGESTION:
IF PERSON IS CONSCIOUS, GIVE WATER OR MILK TO DILUTE STOMACH CONTENTS.
DO NOT INDUCE VOMITING.
CONSULT PHYSICIAN.

ADDITIONAL MEASURES:
NONE FOUND.

-----REACTIVITY DATA-----

CHEMICAL STABILITY: STABLE

HAZARDOUS POLYMERIZATION: WILL NOT OCCUR

CONDITIONS TO AVOID:
AVOID CONTACT WITH STRONG ACIDS.
THIS PRODUCT IS EXPECTED, BY TEST OR ANALOGY, TO SLOWLY ATTACK
ALUMINUM AND PERHAPS OTHER NONFERROUS METALS, RELEASING HYDROGEN GAS.

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

SPILL OR LEAK PROCEDURES:
WEARING APPROPRIATE PERSONAL PROTECTIVE EQUIPMENT, CONTAIN SPILL,
COLLECT ONTO INERT ABSORBENT. PLACE IN SUITABLE CONTAINER.
RINSE RESIDUAL WITH WATER.

WASTE DISPOSAL:
DISPOSE OF OR INCINERATE IN ACCORDANCE WITH REGULATIONS.
PRODUCT WOULD BE CONSIDERED A HAZARDOUS WASTE UNDER RCRA DUE TO HIGH
PH UNLESS NEUTRALIZED PRIOR TO DISPOSAL.

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

RESPIRATORY PROTECTION:
WHERE MIST IS PRESENT, PROVIDE LOCAL VENTILATION
OR A RESPIRATOR CERTIFIED FOR MIST BY NIOSH.

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.

-----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 HEALTH HAZARDS:
EYE HAZARD
IRRITANT
SKIN HAZARD

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