

Hoechst Celanese

Hoechst Celanese Corporation
Electronic Products Division
P.O. Box 3700
50 Meister Avenue
Somerville, NJ 08876-1258

Material Safety Data Sheet

THE EMERGENCY PHONE NUMBERS ARE: CHEMTREC (800) 424-9300
HOECHST CELANESE (908) 231-5423
FOR (NON EMERGENCY) PRODUCT INFORMATION CALL: (908) 231-5566 PAGE 1

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

PRODUCT NAME:
AZ 421K DEVELOPER
SYNONYMS:
PHOTORESIST DEVELOPER
CHEMICAL FAMILY:
BASIC AQUEOUS SOLUTION

VERSION DATE: 01/09/91
DATE PRINTED: 09/29/93
MSDS NUMBER: 500070A1

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

INGREDIENT:	PERCENT:	HAZARD DATA:
POTASSIUM HYDROXIDE, CAUSTIC POTASH, CAS # 1310-58-3	1	LD 50 365 MG/KG TWA 2 MG/M3 CEILING ALKALINE SOLUTION. MAY BE HAZARDOUS BY CONTACT OR INHALATION OF MIST. SEE EFFECTS OF OVEREXPOSURE NJ AND PA RIGHT-TO-KNOW LISTINGS.
OTHER: WATER(7732-18-5)		

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

PHYSICAL DATA	LOW	HIGH	UNITS	COMMENT
BOILING POINT		100	°C	
SOLUBILITY IN WATER				SOLUBLE
PH		13.2		
% VOLATILE		99		
SPECIFIC GRAVITY (WATER =1)		1.007		
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 SKIN AND EYE CONTACT WITH LIQUID AND AEROSOLS.

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.
PRODUCT IS A MODERATE IRRITANT WHEN TESTED ON RABBIT SKIN.
PRODUCT IS A SEVERE IRRITANT WHEN TESTED ON RABBIT EYES.

CARCINOGEN: IARC: NO NTP: NO OSHA: NO

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

TEXT:
SEE HAZARDOUS INGREDIENT SECTION.

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-----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.

-----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.

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

OTHER REGULATORY CONTROLS:
THE COMPONENTS OF THIS PRODUCT ARE LISTED ON THE TSCA INVENTORY.

OSHA HEALTH HAZARDS:
EYE HAZARD
IRRITANT
SKIN HAZARD

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