

## Material Safety Data Sheet

THE EMERGENCY PHONE NUMBERS ARE: CHEMTREC (800) 424-9300  
HOECHST CELANESE (908) 231-4944  
FOR (NON EMERGENCY) PRODUCT INFORMATION CALL: (908) 231-5445

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### PRODUCT IDENTIFICATION

PRODUCT NAME:  
AZ 300T PHOTORESIST STRIPPER  
SYNONYMS:  
PHOTORESIST STRIPPER  
CHEMICAL FAMILY:  
BASIC ORGANIC SOLUTION

VERSION DATE: 04/03/90  
DATE PRINTED: 07/03/91  
MSDS NUMBER: 500070E7

### HAZARDOUS INGREDIENTS

INGREDIENT:	PERCENT:	HAZARD DATA:
TETRAMETHYLAMMONIUM HYDROXIDE,	4	
TMAH, CAS# 75-59-2		CONTACT HAZARD
* N-METHYLPYRROLIDONE, NMP, 1-	41	
METHYL-2-PYRROLIDINONE, CAS#		SEE EFFECTS OF OVEREXPOSURE
872-50-4		
* PROPYLENE GLYCOL, 1,2-PROPANE-	55	
DIOL, CAS# 57-55-6		
* PENNSYLVANIA RIGHT TO KNOW LIST		

### PHYSICAL DATA

PHYSICAL DATA	LOW	HIGH	UNITS	COMMENT
SOLUBILITY IN WATER				SOLUBLE
% VOLATILE		>95		
SPECIFIC GRAVITY (WATER =1)		1.03		
EVAPORATION RATE				<ETHER

APPEARANCE AND ODOR:  
COLORLESS LIQUID, CHARACTERISTIC ODOR.

### FIRE AND EXPLOSION HAZARDS

FLASH POINT: >200 °F TAG 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  
EMITS TOXIC AND CORROSIVE 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:  
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.  
N-METHYL PYRROLIDINONE IS AN EYE IRRITANT AND IS EMBRYOTOXIC AND FETO-TOXIC AT HIGH DOSES. CONTINUED SKIN CONTACT CAN LEAD TO DERMATITIS.

# Hoechst Celanese

Hoechst Celanese Corporation  
Printing Products Division  
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Somerville, NJ 08876-1258

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

TETRAMETHYLAMMONIUM HYDROXIDE IS CAUSTIC AND CORROSIVE TO SKIN AND EYES IN CONCENTRATED FORM.  
THIS PRODUCT CONTAINS PROPYLENE GLYCOL, WHICH IS A SKIN AND EYE IRRITANT; IT HAS BEEN REPORTED TO CAUSE CENTRAL NERVOUS SYSTEM DEPRESSION WHEN ADMINISTERED ORALLY AND HAS BEEN REPORTED TO BE AN IN-VITRO MUTAGEN.  
MOST STANDARD MUTAGENICITY TESTS WITH PROPYLENE GLYCOL HAVE INDICATED THAT IT IS NOT MUTAGENIC. HOWEVER, IN ONE INVITRO TEST, IT WAS FOUND TO BE MUTAGENIC, AT ONE DOSE LEVEL.

TOXICITY:	ROUTE	TEST	DOSE	UNITS	COMMENTS
	SCU/MUS	LDLO	20	MG/KG	TMAH
	ORL/RAT	LD50	7	G/KG	NMP
	ORL/RAT	LD50	20	G/KG	PROPYLENE GLYCOL

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

CARCINOGEN: IARC: NO NTP: NO OSHA: NO

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

TEXT:  
NOT ESTABLISHED.

### -----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.  
GET IMMEDIATE MEDICAL HELP.

SKIN CONTACT:  
IMMEDIATELY REMOVE CONTAMINATED CLOTHING AND WASH AFFECTED AREA THOROUGHLY WITH WATER UNTIL GREASY FEEL AND BITTER TASTE ARE GONE.  
CONSULT PHYSICIAN IF IRRITATION OR OTHER SYMPTOMS OCCUR.

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.  
AVOID CONTACT WITH OXIDIZING AGENTS.



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#### -----REACTIVITY DATA----- (CONTINUED)

HAZARDOUS DECOMPOSITION PRODUCTS:  
THERMAL DECOMPOSITION MAY GENERATE  
CARBON MONOXIDE, CARBON DIOXIDE AND OXIDES OF NITROGEN  
IF HEATED TO DRYNESS, TMAH MAY DECOMPOSE TO TRIMETHYLAMINE AND METHANOL.

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

SPILL OR LEAK PROCEDURES:  
WEARING APPROPRIATE PERSONAL PROTECTIVE EQUIPMENT, CONTAIN SPILL,  
REMOVE ALL SPARKING DEVICES OR IGNITION SOURCES.  
VENTILATE AREA OF SPILL OR LEAK  
COLLECT ONTO INERT ABSORBENT, PLACE IN SUITABLE CONTAINER.  
RINSE RESIDUAL WITH WATER.

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.

#### -----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.

#### -----SPECIAL PRECAUTIONS-----

STORE IN A COOL PLACE.  
KEEP TIGHTLY SEALED.  
KEEP AWAY FROM SOURCES OF HEAT AND IGNITION.

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

OTHER REGULATORY CONTROLS:  
THE COMPONENTS OF THIS PRODUCT ARE LISTED ON THE TSCA INVENTORY.  
THE INGREDIENTS OF THIS PRODUCT ARE KNOWN TO BE BIODEGRADABLE.  
PRODUCT IS NON-TOXIC TO FATHEAD MINNOW AT UP TO 1.017 GRAMS PER LITER.

OSHA HEALTH HAZARDS:  
EYE HAZARD  
IRRITANT  
SKIN HAZARD

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