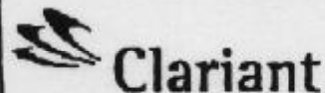


Clariant Corporation
AZ Electronic Materials
P.O. Box 3700
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Material Safety Data Sheet

THE EMERGENCY PHONE NUMBERS ARE: CHEMTREC (800) 424-9300
CLARIANT CORPORATION (800) 835-5235
FOR (NON EMERGENCY) PRODUCT INFORMATION CALL: (800) 235-2637 PAGE 1

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

PRODUCT NAME:
AZ EXP 3330 PHOTORESIST
SYNONYMS:
LIQUID POSITIVE PHOTORESIST
CHEMICAL FAMILY:
RESIN SOLUTION

VERSION DATE: 02/13/98
DATE PRINTED: 02/13/98
MSDS NUMBER: 5000703L

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

INGREDIENT: PERCENT: HAZARD DATA:
PROPYLENE GLYCOL MONOMETHYL 44
ETHER ACETATE, PMA, PGMEA,
1-METHOXY-2-PROPANOL ACETATE,
CAS# 108-65-6
*ETHYL LACTATE, ETHYL 2-HYDROXY- 23
PROPIONATE, CAS# 97-64-3
PHENOLIC COMPOUND 6782900004-5654P 1
OTHER:
CRESOL NOVOLAK RESIN (67829000004 -
5653P), DIAZONAPHTHOQUINONE
SULFONIC ESTERS (67829000004-
5002P), TRADE SECRETS PER NJ AND
PA RIGHT-TO-KNOW LAWS.
* PENNSYLVANIA RIGHT TO KNOW LIST

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
SOLUBILITY IN WATER				FORMS TWO LAYERS
% VOLATILE		67		
SPECIFIC GRAVITY (WATER =1)		1.060		
EVAPORATION RATE				<ETHER
VAPOR PRESSURE		1.48	TORR	
OTHER: VOC		748	G/L	

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

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

FLASH POINT: 104 °F

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.

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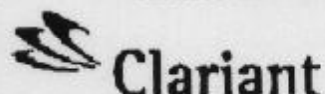
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MSDS NUMBER: 5000703L

-----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.

ETHYL LACTATE IS A SKIN, EYE AND MUCOUS MEMBRANE
IRRITANT.

PHENOLIC COMPOUND IS A SKIN, EYE, MUCOUS MEMBRANE AND UPPER RESPIRATORY TRACT
IRRITANT.

TOXICITY:	ROUTE	TEST	DOSE	UNITS	COMMENTS
	ORAL	LD50RAT	8.5	G/KG	PGMEA/MALE
	ORAL	LD50RAT	>5.0	G/KG	ETHYL LACTATE
	DERMAL	LD50RBT	>5.0	G/KG	PGMEA
	INH	LC50RAT	>4350	PPM	PGMEA
	DERMAL	LD50RAT	>5.0	G/KG	ETHYL LACTATE

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.

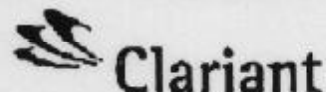
INGESTION:
IF PERSON IS CONSCIOUS, GIVE WATER OR MILK TO DILUTE STOMACH CONTENTS.
CONSULT PHYSICIAN.

ADDITIONAL MEASURES:
ADMINISTER OXYGEN IF THERE IS DIFFICULTY IN BREATHING.

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AZ EXP 3330 PHOTORESIST

-----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

-----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.
CONTACT LENSES SHOULD NOT BE WORN WHEN WORKING WITH THIS CHEMICAL.

-----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.

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

OSHA PHYSICAL HAZARDS:
COMBUSTIBLE LIQUID

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

HAZARD COMMUNICATION LABEL: A

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