*****	*****	*****	*****	****
*	MATERIAL	SAFETY DAT	A SHEET	*
******	*******	*******	******	*****

For screen printing inks as required under 29 CFR 1910.1200(g).

FUJIFILM SERICOL USA, INC.

20 WEST 14TH AVENUE

NORTH KANSAS CITY, MISSOURI 64116

(816) 474-0650

\*\*\*HMIS RATINGS\*\*\*
HEALTH-----2
FLAMMABILITY----3
REACTIVITY-----0

EMERGENCY PHONE NUMBER PREPARER: CRAIG POGGENPOHL DATE OF PREPARATION (816) 587-8178 REGULATORY COMPLIANCE MGR. REVISED 05/25/06/CP

REVISIONS: SECTION II.

PRODUCT CODE : TP-MC

PRODUCT NAME: POLYSCREEN TP MATT CATALYST PRODUCT CLASS: SCREEN PRINTING INK ADDITIVE

COMMON NAME (CAS REGISTRY #)	PERCENT BY		EXPOSURE VA	1			
, ,	WEIGHT	ACGIH TLV-TV	. , ,				
	!  !			 			
TERTIARY AMINE-SUBSTITUTED PHENOL							
(TRADE SECRET)	1-5!	NE .	! NE	l NA			
POLYAMINOAMIDE				 			
(TRADE SECRET)	30-60 !	NE	NE	2.7			
	!						
PETROLEUM DISTILLATE	!						
(64742-95-6)	13.0 !	50°	NE	2.7			
1,2,4-TRIMETHYLBENZENE							
(95-63-6)	3.4!	25	25 <sup>4</sup>	2.7 !			
2-PROPOXYETHANOL	!!!	!	!				
(2807-30-9)	0.9	25 <sup>2,3</sup>	NE	1.3 !			
N-BUTYL ALCOHOL (71-36-3)	10.0	20	! 100	l 4.4			
(/1-30-3)	· ! !			 			
NA - NOT AVAILABLE	NE - NOT	ESTABLISHED	UKN - U	JNKNOWN			

UNLESS NOTED OTHERWISE, THE UNITS ARE PPM AND mm hg @ 20 C, RESPECTIVELY, FOR EXPOSURE LIMITS AND VAPOR PRESSURES.

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RECOMMENDED BY MANUFACTURER.

SKIN ABSORPTION MAY CONTRIBUTE TO THE OVERALL ABSORPTION OF THIS MATERIAL. APPROPRIATE MEASURES SHOULD BE TAKEN TO PREVENT ABSORPTION SO THAT THE TLV AND/OR PEL ARE NOT INVALIDATED.

NIOSH RELS - U.S. NATIONAL INSTITUTE FOR OCCUPATIONAL SAFETY AND HEALTH RECOMMENDED EXPOSURE LIMITS.

\*\*\*\*\*\*\* SECTION III -- PHYSICAL AND CHEMICAL CHARACTERISTICS \*\*\*\*\*\*\*\*

BOILING RANGE: 244 - 335 DEG. F.

DENSITY: 9.18 LB./GAL.

VOC CONTENT OF MATERIAL: 27.7% BY WEIGHT OR 306 GRAMS PER LITER. VOC CONTENT OF COATING LESS WATER AND LESS EXEMPT SOLVENTS: 306 G/L. VAPOR DENSITY: HEAVIER THAN AIR.

EVAPORATION RATE: SLOWER THAN DIETHYL ETHER.

APPEARANCE AND ODOR: VISCOUS AMBER LIQUID, AMMONIACAL, SOLVENT ODOR. SOLUBILITY IN WATER: IMMISCIBLE.

\*\*\*\*\*\*\*\* SECTION IV -- PHYSICAL HAZARD DATA \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

FLAMMABILITY CLASSIFICATIONS: OSHA: CLASS IC DOT: FLAMMABLE LIQUID CLOSED CUP FLASH POINT: 84 DEG. F. EXPLOSIVE LIMITS: UKN

EXTINGUISHING MEDIA: "CLASS B" FIRE EXTINGUISHERS USED IN ACCORDANCE WITH MANUFACTURERS INSTRUCTIONS.

"ALCOHOL" FOAM CO2 DRY CHEMICAL WATER FOG

UNUSUAL FIRE OR EXPLOSION HAZARDS: KEEP CONTAINERS TIGHTLY CLOSED. ISOLATE FROM HEAT, SPARKS, AND OPEN FLAMES. CLOSED CONTAINERS MAY RUPTURE WHEN EXPOSED TO EXTREME HEAT. WATER MAY BE USED TO COOL UNRUPTURED CONTAINERS.

OVEREXPOSURE TO DECOMPOSITION PRODUCTS MAY CONSTITUTE A HEALTH HAZARD. SYMPTOMS MAY NOT BE IMMEDIATELY APPARENT. OBTAIN MEDICAL ATTENTION.

SPECIAL FIREFIGHTING PROCEDURES: WATER MAY BE UNSUITABLE FOR USE ON BURNING LIQUIDS. FULL PROTECTIVE EQUIPMENT IS RECOMMENDED TO PROTECT FIRE FIGHTERS FROM ANY HAZARDOUS DECOMPOSITION PRODUCTS. WATER SPRAY MAY BE INEFFECTIVE. IF WATER MUST BE USED, FOG NOZZLES ARE HIGHLY PREFERABLE. WATER MAY BE USED TO COOL CLOSED CONTAINERS TO PREVENT PRESSURE BUILD-UP AND POSSIBLE AUTO-IGNITION OR EXPLOSION OF CONTAINERS WHEN EXPOSED TO EXTREME HEAT.

\*\*\*\*\*\*\* SECTION V -- EMERGENCY AND FIRST-AID PROCEDURES \*\*\*\*\*\*\*\*

PRIMARY ROUTES OF ENTRY ARE DERMAL AND INHALATION.

FOR SWALLOWING: DRINK TWO GLASSES OF WATER TO DILUTE. DO NOT INDUCE VOMITING. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON. CONSULT PHYSICIAN OR POISON CONTROL CENTER IMMEDIATELY. TREAT SYMPTOMATICALLY. BE PREPARED TO PROVIDE THE ATTENDING PHYSICIAN WITH A COPY OF THIS DOCUMENT.

FOR SKIN CONTACT: REMOVE CONTAMINATED CLOTHING. WASH THOROUGHLY WITH MILD SOAP AND WARM WATER. CONSULT A PHYSICIAN IF THERE IS ANY PERSISTING IRRITATION.

FOR INHALATION: REMOVE VICTIM TO A WELL VENTILATED AREA. GIVE OXYGEN OR ARTIFICIAL RESPIRATION AS REQUIRED. TREAT SYMPTOMATICALLY AND CONSULT PHYSICIAN.

FOR EYE CONTACT: FLUSH WITH COPIOUS AMOUNTS OF WATER FOR AT LEAST FIFTEEN MINUTES. CONSULT PHYSICIAN FOR MEDICAL TREATMENT, IF NECESSARY.

SPECIAL NOTES TO ATTENDING PHYSICIAN: THERE IS NO SPECIFIC ANTIDOTE. TREATMENT OF OVEREXPOSURE SHOULD BE DIRECTED AT CONTROL OF THE SYMPTOMS AND THE CLINICAL CONDITION.

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\*\*\*\*\*\*\* SECTION VI -- SIGNS AND SYMPTOMS OF OVEREXPOSURE \*\*\*\*\*\*\*\*

### ACUTE EFFECTS:

SWALLOWING: CAUSES GASTRONICAL IRRITATION, VOMITING AND DIARRHEA. SIGNS OF NERVOUS SYSTEM DEPRESSION (E.G., DROWSINESS, DIZZINESS, LOSS OF COORDINATION, AND FATIGUE). ASPIRATION HAZARD - THIS MATERIAL CAN ENTER LUNGS DURING SWALLOWING OR VOMITING AND CAUSE LUNG INFLAMMATION AND DAMAGE.

SKIN ABSORPTION: PROLONGED OR WIDESPREAD CONTACT WITH SKIN MAY LEAD TO ABSORPTION OF HARMFUL AMOUNTS OF MATERIAL WITH ACCOMPANYING SIGNS AND SYPMTOMS OF TOXICITY AS DESCRIBED FOR SWALLOWING.

INHALATION: VAPORS OR MISTS MAY CAUSE IRRITATION OF THE NOSE AND THROAT. SIGNS OF NERVOUS SYSTEM DEPRESSION (E.G., DROWSINESS, DIZZINESS, LOSS OF COORDINATION, NAUSEA, HEADACHE AND FATIGUE).

SKIN CONTACT: CAUSES IRRITATION, REDNESS AND DISCOMFORT WHICH IS TRANSIENT.

EYE CONTACT: CAUSES IRRITATION, REDNESS AND DISCOMFORT WHICH IS TRANSIENT. MAY CAUSE CONJUNCTIVITIS OR CORNEAL DAMAGE.

CHRONIC EFFECTS: REPEATED AND/OR PROLONGED CONTACT WITH THE SKIN MAY CAUSE ALLERGIC REACTION/SENSITIZATION.

MEDICAL CONDITIONS KNOWN TO BE AGGRAVATED BY OVEREXPOSURE: LUNG CONDITIONS AND SKIN CONDITIONS.

ADDITIONAL KNOWN HEALTH HAZARDS: REPORTS HAVE ASSOCIATED PROLONGED AND REPEATED OCCUPATIONAL OVEREXPOSURE TO SOLVENTS WITH PERMANENT BRAIN AND NERVOUS SYSTEM DAMAGE. INTENTIONAL MISUSE BY DELIBERATELY CONCENTRATING AND INHALING THE CONTENTS MAY BE HARMFUL OF FATAL.

THIS MIXTURE IS STABLE AND HAZARDOUS POLYMERIZATION WILL NOT OCCUR.

INCOMPATIBILITY (MATERIALS TO AVOID): STRONG ACIDS, STRONG BASES, AND OXIDIZING AGENTS.

CAUTION] N-NITROSAMINES, MANY OF WHICH ARE KNOWN TO BE POTENT CARCINOGENS, MAY BE FORMED WHEN THE PRODUCT COMES IN CONTACT WITH NITROUS ACID, NITRITES OR ATMOSPHERES WITH HIGH NITROUS OXIDE CONCENTRATIONS.

HAZARDOUS DECOMPOSITION PRODUCTS: CARBON MONOXIDE, CARBON DIOXIDE, OXIDES OF NITROGEN, SMOKE.

CONDITIONS TO AVOID: EXTREME TEMPERATURES, SPARKS, OPEN FLAMES OR ANY OTHER IGNITION SOURCES.

STEPS TO BE TAKEN IF MATERIAL IS SPILLED OR RELEASED: USING NON-SPARKING TOOLS, PLACE LEAKING CONTAINERS IN A WELL VENTILATED AREA. ELIMINATE ALL SOURCES OF HEAT, SPARKS, OR IGNITION. NOTIFY PROPER AUTHORITIES IF PUBLIC WATERS OR SEWERS AR CONTAMINATED.

WASTE DISPOSAL METHOD: AS A HAZARDOUS WASTE, THIS MATERIAL MUST BE DISPOSED OF IN ACCORDANCE WITH ALL FEDERAL, STATE, AND LOCAL ORDINANCES. INQUIRE OF YOUR LOCAL ENVIRONMENTAL AGENCIES FOR THE EXACT

LEGAL REQUIREMENTS IN YOUR AREA.

REFER TO SECTIONS IV, V, VI, VII AND IX OF THIS DOCUMENT BEFORE ATTEMPTING CLEANUP.

\*\*\*\*\*\*\* SECTION IX -- SAFE HANDLING AND USE INFORMATION \*\*\*\*\*\*\*\*\*\*

RESPIRATORY PROTECTION: WHERE CONCENTRATIONS IN AIR MAY EXCEED THE LIMITS GIVEN IN SECTION II AND ENGINEERING, WORK PRACTICE OR OTHER MEANS OF EXPOSURE REDUCTION ARE NOT ADEQUATE, NIOSH/MSHA APPROVED RESPIRATORS MAY BE NECESSARY TO PREVENT OVEREXPOSURE.

VENTILATION REQUIREMENTS: LOCAL EXHAUST RECOMMENDED WHEN APPROPRIATE TO CONTROL EXPOSURE TO MIST OR AEROSOLS. GENERAL EXHAUST IS NORMALLY ADEQUATE TO MINIMIZE EXPOSURE TO VAPORS.

PROTECTIVE GLOVES: RUBBER OR NEOPRENE TO MINIMIZE SKIN CONTACT. EYE PROTECTION: SAFETY GOGGLES OR FULL FACE SHIELD.

HYGIENIC SAFETY PRACTICES: WASH HANDS BEFORE EATING, USING TOBACCO PRODUCTS, OR USING THE WASHROOM. TOBACCO AND FOOD SHOULD BE CONSUMED IN DESIGNATED AREAS ONLY.

ADDITIONAL SAFETY EQUIPMENT: IMPERMEABLE APRONS AND BOOTS. SAFETY SHOWER AND EYE BATH SHOULD BE MADE AVAILABLE.

TRANSPORTATION, STORAGE AND HANDLING: AVOID CONDITIONS LISTED IN SECTION VII. STORE BETWEEN 40 AND 70 DEGREES FAHRENHEIT IN A DRY, WELL VENTILATED PLACE AWAY FROM SOURCES OF HEAT, IGNITION AND DIRECT SUNLIGHT. NO SMOKING. PREVENT UNAUTHORIZED ACCESS. CONTAINERS WHICH ARE OPENED SHOULD BE PROPERLY RESEALED AND KEPT UPRIGHT TO PREVENT LEAKAGE. STORE SEPARATELY FROM OXIDIZING AGENTS AND STRONG ALKALINE AND ACIDIC MATERIALS.

OTHER PRECAUTIONS: AVOID CONTACT WITH SKIN AND EYES. DO NOT BREATHE VAPORS.

SERICOL, INC. MAKES NO WARRANTY, EXPRESSED OR IMPLIED, AS TO THE ACCURACY OR RELIABILITY OF INFORMATION CONTAINED HEREIN, EXCEPT THAT SUCH INFORMATION IS, TO THE BEST OF SERICOL'S KNOWLEDGE AND BELIEF, ACCURATE AS OF THE DATE INDICATED ON THIS DOCUMENT. FINAL DETERMINATION OF SUITABILITY OF ANY MATERIAL IS THE SOLE RESPONSIBILITY OF THE USER. ALL MATERIALS MAY PRESENT UNKNOWN HEALTH HAZARDS AND SHOULD BE USED WITH CAUTION. ALTHOUGH CERTAIN HAZARDS ARE DESCRIBED HEREIN, WE CANNOT GUARANTEE THAT THESE ARE THE ONLY HAZARDS THAT EXIST.

SERICOL, INC. URGES THE CUSTOMER RECEIVING THIS MATERIAL SAFETY DATA SHEET TO STUDY IT CAREFULLY TO BECOME AWARE OF HAZARDS, IF ANY, OF THE PRODUCTS INVOLVED. IN THE INTEREST OF SAFETY, YOU SHOULD (1) NOTIFY YOUR EMPLOYEES, AGENTS, AND CONTRACTORS OF THE INFORMATION ON THIS SHEET, (2) FURNISH A COPY TO EACH OF YOUR CUSTOMERS FOR THIS PRODUCT, AND (3) REQUEST YOUR CUSTOMERS TO INFORM THEIR EMPLOYEES, CUSTOMERS, AND AGENTS, AS WELL.

\*\*\*\*\*\*\* SECTION XIII -- REGULATORY INFORMATION \*\*\*\*\*\*\*\*\*\*\*\*\*\*

TOXIC SUBSTANCES CONTROL ACT (TSCA) STATUS: THE INGREDIENTS OF THIS

PRODUCT ARE LISTED ON THE TSCA INVENTORY.

THIS PRODUCT CONTAINS A TOXIC CHEMICAL OR CHEMICALS SUBJECT TO THE ANNUAL REPORTING REQUIREMENTS OF SECTION 313 OF TITLE III OF THE SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT OF 1986 AND 40 CFR PART 372.

1,2,4-TRIMETHYLBENZENE, CAS# 95-63-6, 3.4% BY WEIGHT

n-BUTYL ALCOHOL, CAS# 71-36-3, 10% BY WEIGHT

THIS NOTIFICATION MUST NOT BE DETACHED FROM THE MATERIAL SAFETY DATA SHEET (MSDS) AND ANY COPYING AND REDISTRIBUTION OF THE MSDS SHALL INCLUDE COPYING AND REDISTRIBUTION OF THE NOTICE ATTACHED TO COPIES OF THE MSDS SUBSEQUENTLY REDISTRIBUTED.

STATE OF CALIFORNIA SAFE DRINKING WATER AND TOXIC ENFORCEMENT ACT OF 1986 (PROPOSITION 65): THIS PRODUCT DOES NOT CONTAIN CHEMICALS KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER OR REPRODUCTIVE TOXICITY.

STATE OF CALIFORNIA: THIS PRODUCT IS CONSIDERED "PHOTOCHEMICALLY REACTIVE" BY DEFINITION OF RULE 102 OF THE SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT.