

MSDS# POP-TH

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\* MATERIAL SAFETY DATA SHEET \*  
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For screen printing inks as required under 29 CFR 1910.1200(g).

FUJIFILM SERICOL USA, INC.  
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\*\*\*HMIS RATINGS\*\*\*  
HEALTH-----2  
FLAMMABILITY-----1  
REACTIVITY-----1

EMERGENCY PHONE NUMBER PREPARER: CRAIG POGGENPOHL DATE OF PREPARATION  
(816) 587-8178 REGULATORY COMPLIANCE MGR. REVISED 08/31/07/CP

REVISIONS: SECTION II.

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SECTION I--PRODUCT IDENTIFICATION  
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PRODUCT CODE : POP-TH  
LABEL IDENTITY: UVANTAGE THINNER  
PRODUCT CLASS : ULTRAVIOLET CURABLE SCREEN INK REDUCER

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SECTION II--HAZARDOUS INGREDIENTS  
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COMMON NAME (CAS REGISTRY #)	RECOMMENDED EXPOSURE LIMITS (PPM) <sup>1</sup>		VAPOR PRESSURE (mm Hg @ 20 C) <sup>1</sup>
	ACGIH TLV-TWA	OSHA PEL	
DIACRYLATE ( TS )	NE	NE	< 1
GLYCOL ETHER ACRYLATE <sup>2</sup> (48145-04-6)	NE	NE	< 1

NA-NOT APPLICABLE NE-NOT ESTABLISHED UKN-UNKNOWN TS-TRADE SECRET

<sup>1</sup>UNLESS NOTED OTHERWISE, THE UNITS ARE PPM AND mm Hg @ 20 C,  
RESPECTIVELY, FOR EXPOSURE LIMITS AND VAPOR PRESSURES.

<sup>2</sup>SEE SECTION XIII FOR SARA 313 INFORMATION.

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SECTION III -- PHYSICAL AND CHEMICAL CHARACTERISTICS  
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BOILING RANGE: > 200 DEG. F.  
DENSITY: 9.1 LB./GAL.  
VOLATILE ORGANIC COMPOUNDS: LESS THAN 2% BY WEIGHT.  
VAPOR DENSITY: HEAVIER THAN AIR.  
EVAPORATION RATE: SLOWER THAN DIETHYL ETHER.  
APPEARANCE AND ODOR: CLEAR LIQUID WITH TYPICAL ACRYLATE ODOR.

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SECTION IV -- PHYSICAL HAZARD DATA  
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FLAMMABILITY CLASSIFICATIONS: OSHA: CLASS III B DOT: NOT REGULATED  
CLOSED CUP FLASH POINT: > 200 F. EXPLOSIVE LIMITS: UNKNOWN

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

FOAM CO2 DRY CHEMICAL WATER FOG

UNUSUAL FIRE AND EXPLOSION HAZARDS:

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HIGH TEMPERATURES/INHIBITOR DEPLETION/ACCIDENTAL IMPURITIES/EXPOSURE TO RADIATION/OXIDIZERS MAY CAUSE SPONTANEOUS POLYMERIZING REACTION, GENERATING HEAT/PRESSURE. CLOSED CONTAINERS MAY RUPTURE/EXPLODE DURING RUNAWAY POLYMERIZATION.

SPECIAL FIREFIGHTING PROCEDURES:

DO NOT ENTER FIRE AREA WITHOUT PROPER PROTECTION. SEE SECTION ON DECOMPOSITION PRODUCTS POSSIBLE. FIGHT FIRE FROM SAFE DISTANCE/PROTECTED LOCATION. HEAT/IMPURITIES MAY INCREASE TEMPERATURE/BUILD PRESSURE/RUPTURE CLOSED CONTAINERS, SPREADING FIRE, INCREASING RISK OF BURNS/INJURIES. WATER MAY BE INEFFECTIVE IN FIREFIGHTING DUE TO LOW SOLUBILITY. USE WATER SPRAY/FOG FOR COOLING. PRESSURE RELIEF SYSTEM MAY PLUG WITH SOLIDS, INCREASING RISK OF OVERPRESSURE. NOTIFY AUTHORITIES IF LIQUID ENTERS SEWER/PUBLIC WATERS.

SECTION V -- EMERGENCY AND FIRST-AID PROCEDURES

PRIMARY ROUTES OF ENTRY ARE DERMAL.

FOR SWALLOWING: IF APPRECIABLE QUANTITIES ARE SWALLOWED, SEEK MEDICAL ATTENTION.

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.

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.

SECTION VI-- SIGNS AND SYMPTOMS OF OVER-EXPOSURE

ACUTE EFFECTS:

SWALLOWING: MAY BE HARMFUL IF SWALLOWED.

SKIN ABSORPTION: MAY BE HARMFUL IF ABSORBED THROUGH SKIN.

INHALATION: EXPOSURE TO VAPORS IS UNLIKELY DUE TO LOW VAPOR PRESSURE OF INGREDIENTS, BUT INHALATION OF MIST, AEROSOLS, OR VAPORS MAY RESULT IN RESPIRATORY TRACT IRRITATION AND POSSIBLE PULMONARY EDEMA.

SKIN CONTACT: MAY CAUSE MODERATE SKIN INJURY (REDDENING AND SWELLING) AND/OR SENSITIZATION. PROLONGED CONTACT MAY CAUSE BLISTER FORMATION (BURNS). SINCE IRRITATION MAY NOT OCCUR IMMEDIATELY, CONTACT CAN GO UNNOTICED.

EYE CONTACT: MAY CAUSE MILD IRRITATION. SYMPTOMS MAY INCLUDE EXCESSIVE TEARING, BLINKING, AND REDNESS.

MEDICAL CONDITIONS KNOWN TO BE AGGRAVATED BY OVEREXPOSURE: MAY AGGRAVATE EXISTING SKIN, EYE AND LUNG CONDITIONS.

CHRONIC EFFECTS: NONE KNOWN.

ADDITIONAL KNOWN HEALTH HAZARDS: NONE KNOWN.

SECTION VII -- REACTIVITY DATA

THIS MIXTURE IS POTENTIALLY UNSTABLE AND HAZARDOUS POLYMERIZATION MAY OCCUR IF EXPOSED TO MATERIALS AND CONDITIONS TO BE AVOIDED.

INCOMPATIBILITY (MATERIALS TO AVOID): ACIDS, ALKALIES, FREE RADICAL PRODUCING INITIATORS.

HAZARDOUS DECOMPOSITION PRODUCTS: CARBON MONOXIDE AND CARBON DIOXIDE.

CONDITIONS TO AVOID: EXTREME TEMPERATURES, DIRECT SUNLIGHT, X-RAY SOURCES, ELECTRON BEAM SOURCES, OR ULTRAVIOLET RADIATION SOURCES AND CHEMICAL CONTAMINATION.

SECTION VIII -- SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IF MATERIAL IS SPILLED OR RELEASED: SPONTANEOUS POLYMERIZATION CAN OCCUR. ELIMINATE IGNITION SOURCES. USE EYE AND SKIN PROTECTION. PLACE LEAKING CONTAINERS IN A WELL VENTILATED AREA. ABSORB WITH INERT MATERIAL AND DISPOSE. FLUSH AREA WITH WATER; PREVENT WASHINGS FROM ENTERING WATERWAYS. SPILLS MAY BE REPORTABLE TO THE NATIONAL RESPONSE CENTER (800-424-8802).

WASTE DISPOSAL METHOD: INCINERATE OR USE BIOLOGICAL TREATMENT IN ACCORDANCE WITH FEDERAL, STATE, AND LOCAL REGULATIONS. THIS MATERIAL IS A HAZARDOUS WASTE UNDER CURRENT RCRA REGULATIONS BECAUSE OF REACTIVITY.

SECTION IX -- SAFE HANDLING AND USE INFORMATION

RESPIRATORY PROTECTION: DUE TO LOW VAPOR PRESSURE, INHALATION IS NOT CONSIDERED AN OCCUPATIONALLY SIGNIFICANT ROUTE OF EXPOSURE, HOWEVER, A NIOSH-APPROVED RESPIRATOR IS RECOMMENDED FOR OPERATIONS RESULTING IN EXCESS ORGANIC VAPORS IN THE BREATHING ZONE.

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 WHENEVER A SPLASH HAZARD IS PRESENTED.

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.

SECTION X -- SPECIAL PROCEDURES

TRANSPORTATION, STORAGE, AND HANDLING: AVOID CONDITIONS LISTED IN SECTION VII. AVOID PROLONGED STORAGE AT TEMPERATURES IN EXCESS OF 100 F.

OTHER PRECAUTIONS: LEATHER GLOVES, APRONS, BELTS, OR BOOTS MAY BE PERMEATED BY THESE MATERIALS, CAUSING DELAYED AND PERSISTENT IRRITATION OR CHEMICAL BURNS. LEATHER ITEMS SHOULD BE DISPOSED OF, ONCE CONTAMINATED.

SECTION XI -- DISCLAIMER

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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 SERICOLS' 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.

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SECTION XII -- PURCHASERS' OBLIGATIONS  
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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.

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SECTION XIII -- REGULATORY INFORMATION  
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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.

CERTAIN GLYCOL ETHERS: 80% 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.