MSDS# TP-TH - US

SERICOL, INC. ***HMIS RATINGS*** 20 WEST 14TH AVENUE HEALTH----2 NORTH KANSAS CITY, MISSOURI 64116 FLAMMABILITY----2 REACTIVITY----0 (816) 474-0650 *************** MATERIAL SAFETY DATA SHEET ************ For screen printing inks as required under 29 CFR 1910.1200(g). EMERGENCY PHONE NUMBER PREPARER: CRAIG POGGENPOHL DATE OF PREPARATION (816) 587-8178 REGULATORY COMPLIANCE MGR. REVISED 04/05/00/CP REVISIONS: SECTIONS II. SECTION I--PRODUCT IDENTIFICATION

PRODUCT CODE : TP-TH

LABEL IDENTITY: POLYSCREEN THINNER PRODUCT CLASS: SCREEN INK REDUCER

SECTION II--HAZARDOUS INGREDIENTS

COMMON NAME PERCENT RECOMMENDED EXPOSURE VAPOR PRESSURE (CAS REGISTRY #)

BY LIMITS (PPM)1 (mm Hg @ 20 C)1

WEIGHT ACGIH TLV-TWA OSHA PEL

GLYCOL ETHER ! 100 202 502 0.6

S13400 (00111-76-2) !

NA - NOT APPLICABLE NE - NOT ESTABLISHED UKN - UNKNOWN LUNLESS NOTED OTHERWISE, THE UNITS ARE PPM AND mm Hg @ 20 C, RESPECTIVELY, FOR EXPOSURE LIMITS AND VAPOR PRESSURES.

2SKIN 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.

SECTION III -- PHYSICAL AND CHEMICAL CHARACTERISTICS

BOILING RANGE: 170 C. DENSITY: 7.49 LBS/GAL.

VOC CONTENT OF MATERIAL: 100% OR 897 GRAMS PER LITER.

VOC CONTENT OF COATING LESS WATER AND LESS EXEMPT SOLVENTS: 897 G/L.

VAPOR DENSITY: HEAVIER THAN AIR.

VAPOR DENSITY (AIR=1): 4.1

SOLUBILITY IN WATER: 100%

EVAPORATION RATE: SLOWER THAN DIETHYL ETHER.

APPEARANCE AND ODOR: COLORLESS, MOBILE, CLEAR LIQUID. FAINT ODOR.

FLAMMABILITY CLASSIFICATIONS: OSHA: CLASS IIIA DOT: COMBUSTIBLE LIQUID CLOSED CUP FLASH POINT: 143 F. LOWER EXPLOSIVE LIMIT: 1.1 % VOLUME UPPER EXPLOSIVE LIMIT: 10.6% VOLUME

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, ELECTRICAL EQUIPMENT AND OPEN FLAMES. CLOSED CONTAINERS MAY RUPTURE OR EXPLODE WHEN EXPOSED TO EXTREME HEAT. APPLICATION TO HOT SURFACES REQUIRES SPECIAL PRECAUTIONS. DURING EMERGENCY CONDITIONS, OVEREXPOSURE TO DECOMPOSITION PRODUCTS MAY CONSTITUTE A HEALTH HAZARD. SYMPTOMS MAY NOT BE IMMEDIATELY APPARENT. OBTAIN MEDICAL ATTENTION.

SPECIAL FIREFIGHTING PROCEDURES: FULL PROTECTIVE EQUIPMENT IS RECOMMENDED TO PROTECT FIRE FIGHTERS FROM ANY HAZARDOUS DECOMPOSITION PRODUCTS.

WATER MAY BE UNSUITABLE FOR USE ON BURNING LIQUIDS. 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, EXPLOSION, OR RUPTURE 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. 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.

SECTION VI -- SIGNS AND SYMPTOMS OF OVER-EXPOSURE

ACUTE EFFECTS:

SWALLOWING: SINGLE DOSE ORAL TOXICITY IS LOW. SWALLOWING SMALL AMOUNTS

DURING NORMAL HANDLING IS NOT LIKELY TO CAUSE HARMFUL EFFECTS; SWALLOWING LARGE AMOUNTS MAY BE HARMFUL. SYMPTOMS MAY INCLUDE CENTRAL NERVOUS SYSTEM DEPRESSION (DIZZINESS, DROWSINESS, WEAKNESS, FATIGUE, NAUSEA, HEADACHE, UNCONSCIOUSNESS), BLOOD ABNORMALITIES (RED BLOOD CELL HEMOLYSIS), KIDNEY AND LIVER DAMAGE, COMA.

SKIN ABSORPTION: ABSORPTION IS POSSIBLE, AND SKIN CONTACT MAY BE HARMFUL. SYMPTOMS OF TOXICITY MAY INCLUDE CENTRAL NERVOUS SYSTEM DEPRESSION (DIZZINESS, DROWSINESS, WEAKNESS, FATIGUE, NAUSEA, HEADACHE, UNCONSCIOUSNESS), BLOOD ABNORMALITIES (RED BLOOD CELL HEMOLYSIS), KIDNEY AND LIVER DAMAGE.

INHALATION: SHORT-TERM INHALATION TOXICITY IS MODERATE. EXPOSURE MAY BE HARMFUL. SYMPTOMS ARE MORE TYPICALLY SEEN AT AIR CONCENTRATIONS EXCEEDING THE RECOMMENDED EXPOSURE LIMITS. SYMPTOMS OF EXPOSURE MAY INCLUDE NOSE, THROAT, RESPIRATORY TRACT IRRITATION, CENTRAL NERVOUS SYSTEM DEPRESSION (DIZZINESS, DROWSINESS, WEAKNESS, FATIGUE, NAUSEA, HEADACHE, UNCONSCIOUSNESS), BLOOD IN THE URINE, (HEMOGLOBINURIA), DIFFICULT OR LABORED BREATHING (DYSPNEA), BLOOD ABNORMALITIES (RED BLOOD CELL HEMOLYSIS,

LIVER AND KIDNEY DAMAGE.

SKIN CONTACT: EXPOSURE MAY CAUSE MILD SKIN IRRITATION. SYMPTOMS MAY INCLUDE REDNESS AND BURNING.

EYE CONTACT: EXPOSURE TO LIQUID OR VAPOR CAUSES EYE IRRITATION. SYSPTOMS MAY INCLUDE STINGING, TEARING, REDNESS, AND SWELLING.

MEDICAL CONDITIONS KNOWN TO BE AGGRAVATED BY OVEREXPOSURE: MAY AGGRAVATE AN EXISTING DERMATITIS.

CHRONIC EFFECTS: ONE COMPONENT HAS APPARENTLY BEEN FOUND TO CAUSE THE FOLLOWING EFFECTS IN LABORATORY ANIMALS:, BLOOD ABNORMALITIES, MILD, REVERSIBLE LIVER EFFECTS, MILD, REVERSIBLE KIDNEY EFFECTS.

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 OR FATAL.

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SECTION VII REACTIVITY DATA	

THIS MIXTURE IS STABLE AND HAZARDOUS POLYMERIZATION WILL NOT OCCUR.

INCOMPATIBILITY (MATERIALS TO AVOID): STRONG OXIDIZERS AND ALKALIES.

HAZARDOUS DECOMPOSITION PRODUCTS: CARBON MONOXIDE AND CARBON DIOXIDE.

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

SECTION VIII -- SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IF MATERIAL IS SPILLED OR RELEASED: ELIMINATE ALL SOURCES OF IGNITION SUCH AS FLARES, FLAMES (INCLUDING PILOT LIGHTS),

AND ELECTRICAL SPARKS. ABSORB ONTO SAND OR OTHER ABSORBENT MATERIAL.

PER GOOD ENVIRONMENTAL MANAGEMENT PRACTICES, PREVENT RUN-OFF TO SEWERS, STREAMS AND OTHER BODIES OF WATER. STOP SPILL AT THE SOURCE. COVER SEWER GRATES AND DIKE THE SPILL. ABSORB SPILLED MATERIAL ON TO ABSORBENTS. SHOVEL MATERIALS INTO CONTAINER. CLOSE CONTAINER TIGHTLY AND DISPOSE OF PROPERLY. NOTIFY PROPER AUTHORITIES IF PUBLIC WATERS OR SEWERS ARE CONTAMINATED.

WASTE DISPOSAL METHOD: DESTROY BY INCINERATION IN ACCORDANCE WITH APPLICABLE REGULATIONS.

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.

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: NONE.

SECTION XI -- DISCLAIMER

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 1 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.

SECTION XII -- CUSTOMER'S OBLIGATIONS

SERICOL, INC. URGES THE CUSTOMER RECEIVING THIS MATERIAL SAFETY DATA SHE TO STUDY IT CAREFULLY TO BECOME AWARE OF HAZARDS, IF ANY, OF THE PRODUCT 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.

CERTAIN GLYCOL ETHERS, CAS# 111-76-2, 99% 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.

Dec. 29. 2004, 1:31PM 53PM SERICOL

No.4519 P. 7/12 MSDS#:

SERICOL, INC. 20 WEST 14TH AVENUE NORTH KANSAS CITY, MISSOURI 64116 (816) 474-0650

HMIS RATINGS HEALTH----2 FLAMMABILITY----2 REACTIVITY----0

MATERIAL SAFETY DATA SHEET *********

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

UNDER OSHA'S HAZARD COMMUNICATION STANDARD, WHERE COMPLEX MIXTURES HAVE SIMILAR HAZARDS AND CONTENTS, THE MANUFACTURER MAY PREPARE ONE MATERIAL SAFETY DATA SHEET TO APPLY TO ALL OF THESE SIMILAR MIXTURES. THIS DOCUMENT APPLIES TO ALL COLORS AND SPECIALS IN THIS INK LINE.

(816) 587-8178

EMERGENCY PHONE NUMBER PREPARER: CRAIG POGGENPOHL DATE OF PREPARATION REGULATORY COMPLIANCE MGR. REVISED 01/25/99/CP

REVISIONS: SECTION V.

SECTION I--PRODUCT IDENTIFICATION

PRODUCT CODE : TP

LABEL IDENTITY: POLYSCREEN TP

PRODUCT CLASS: SOLVENT BASED EPOXY SCREEN INK

SECTION II--HAZARDOUS INGREDIENTS

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COMMON NAME (CAS REGISTRY #)	PERCENT BY WEIGHT	RECOMMENDED LIMITS ACGIH TLV-TY	(PPM) I	VAPOR PRESSURE (mm Hg & 20 C)
GLYCOL ETHER (34590-94-8) \$13950	6-10	100 SKIN2 (STEL 150)	100 SKIN ² (STEL 150)	< 0.55
GLYCOL ETHER (05131-66-8) S13975	11-18	NE	NE	< 0.60
EPOXY RESIN(TRADE SECRET) R27150, R27175	 	NE NE	NE	NA
BARIUM SULFATE(7727-43-7) F63005	20-24	10 mg/m³ 5 mg/m³	10 mg/m³ (RESPIRABLE	 (TOTAL DUST) FRACTION)
CARBON BLACK (1333-86-4)	2-7	3.5mg/m³	3.5mg/m³	AN .
NA - NOT APPLICABLE	NE - NOT	ESTABLISHED	UKN -	UNKNOWN

[&]quot;UNLESS NOTED OTHERWISE, THE UNITS ARE PPM AND men Hg @ 20 C, RESPECTIVELY. FOR EXPOSURE LIMITS AND VAPOR PRESSURES.

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.

³ INKS CONTAINING CARBON BLACK: TP-301 TP-SB TP-HTBK TP-HTBKT.

MSDS#: No.4519 P. 8/12

SECTION III -- PHYSICAL AND CHEMICAL CHARACTERISTICS

INITIAL BOILING POINT: 338 DEGREES FAHRENHEIT.

DENSITY IS 8.919 TO 14.505 LBS/GAL.

VOC CONTENT OF MATERIAL: 16-32 % BY WEIGHT OR 260-340 GRAMS/LITER.
VOC CONTENT OF COATING LESS WATER AND LESS EXEMPT SOLVENTS: 260-340

VAPOR DENSITY IS HEAVIER THAN AIR.

GRAMS/LITER.

THE EVAPORATION RATE IS SLOWER THAN DIETHYL ETHER.

SECTION IV -- PHYSICAL HAZARD DATA

FLAMMABILITY CLASSIFICATIONS: OSHA: CLASS II DOT: COMBUSTIBLE LIQUID CLOSED CUP FLASH POINT: 138 F. EXPLOSIVE LIMITS: UNKNOWN

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, ELECTRICAL EQUIPMENT AND OPEN FLAMES.
- CLOSED CONTAINERS MAY RUPTURE OR EXPLODE WHEN EXPOSED TO EXTREME HEAT.
APPLICATION TO HOT SURFACES REQUIRES SPECIAL PRECAUTIONS.
DURING EMERGENCY CONDITIONS, OVEREXPOSURE TO DECOMPOSITION PRODUCTS MAY CONSTITUTE A HEALTH HAZARD. SYMPTOMS MAY NOT BE IMMEDIATELY APPARENT.
OBTAIN MEDICAL ATTENTION.

SPECIAL FIREFIGHTING PROCEDURES: FULL PROTECTIVE EQUIPMENT IS RECOMMENDED TO PROTECT FIRE FIGHTERS FROM ANY HAZARDOUS DECOMPOSITION PRODUCTS.

WATER MAY BE UNSUITABLE FOR USE ON BURNING LIQUIDS. 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, EXPLOSION, OR RUPTURE 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.

MSDS#: 7419811

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.

SECTION VI -- SIGNS AND SYMPTOMS OF OVEREXPOSURE

ACUTE EFFECTS:

SWALLOWING: TOXICITY IS LOW TO MODERATE. MAY CAUSE DIZZINESS, DROWSINESS, MENTAL CONFUSION, NAUSEA, INCOORDINATION, VOMITING, AND DIARRHEA.

SKIN ABSORPTION: A COMPONENT IS READILY ABSORBED THROUGH THE SKIN AND MAY PRODUCE TOXIC EFFECTS.

INHALATION: EXCESSIVE INHALATION OF VAPORS MAY CAUSE NASAL AND RESPIRATORY IRRITATION, CENTRAL NERVOUS SYSTEM EFFECTS INCLUDING DIZZINESS, WEAKNESS, FATIGUE, NAUSEA, HEADACHE AND POSSIBLE UNCONSCIOUSNESS AND EVEN ASPHYXIATION.

SKIN CONTACT: PROLONGED OR REPEATED SKIN CONTACT CAN CAUSE IRRITATION, DEFATTING, DERMATITIS.

EYE CONTACT: CAN CAUSE SEVERE IRRITATION, POSSIBLE CORNEAL INJURY.

CONDITIONS KNOWN TO BE AGGRAVATED BY OVEREXPOSURE: NO DATA.

CHRONIC EFFECTS: OVEREXPOSURE TO THIS MATERIAL (OR ITS COMPONENTS)
HAS APPARENTLY BEEN FOUND TO CAUSE THE FOLLOWING EFFECTS IN LABORATORY
ANIMALS: LIVER ABNORMALITIES.

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 OR FATAL.

SECTION VII -- REACTIVITY DATA

THIS MIXTURE IS STABLE AND HAZARDOUS POLYMERIZATION WILL NOT OCCUR.

INCOMPATIBILITY (MATERIALS TO AVOID): STRONG OXIDIZING MATERIAL.

HAZARDOUS DECOMPOSITION PRODUCTS: CARBON MONOXIDE, CARBON DIOXIDE, VARIOUS HYDROCARBONS.

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

ATTEMPTING ANY CLEANUP.

No.4519 P. 10/12

SECTION VIII -- SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IF MATERIAL IS SPILLED OR RELEASED: USING NON-SPARKING TOOLS, PLACE LEAKING CONTAINERS IN A WELL VENTILATED AREA. AVOID BREATHING VAPORS.

ELIMINATE ALL SOURCES OF HEAT, SPARKS, OR IGNITION.
NOTIFY PROPER AUTHORITIES IF PUBLIC WATERS OR SEWERS ARE 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

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.

V 부족문학원 값 다고 P S 방법원 원일 및 다 P 두 두 두 등 등 수 한 보면 등 한 후 모르는 목록 당 원원 원칙 등 등 등 등 두 부분 및 등 등 등 두 두 모 전 현호 모 다 두 본 두 유

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: PROTECT AGAINST THE INHALATION OF DUST OR PARTICLES GENERATED BY SANDING, BLASTING, OR ABRADING OF THE DRIED COATING.

SECTION XI -- DISCLAIMER

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 USERS. 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.

MSDS#: 7417014 P. 11/12

ECTION XII -- CUSTOMER'S OBLIGATIONS

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.

THE 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.

SARA TITLE III SECTION 313 INFORMATION: THIS PRODUCT DOES NOT CONTAIN TOXIC 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.

STATE OF CALIFORNIA SAFE DRINKING WATER AND TOXIC ENFORCEMENT ACT OF 1986 (PROPOSITION 65): THIS PRODUCT MAY CONTAIN TRACE AMOUNTS OF EPICHLOROHYDRIN (LESS THAN 1 PPM), A CHEMICAL KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER.

STATE OF CALIFORNIA SAFE DRINKING WATER AND TOXIC ENFORCEMENT ACT OF 1986 (PROPOSITION 65): THIS PRODUCT MAY CONTAIN TRACE AMOUNTS OF BENZENE (LESS THAN 50 PPM), A CHEMICAL KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER.

No.4519 P. 12/12 MSDS#: 7419811 "....

VOC CONTENT

1		1 1		
· j	* VOC	WPG INK	LBS VOC	GRAMS VOC
DESCRIPTION	by WT	IN LBS	PER GAL	PER LITRE
TP-064 YELLOW GS	23.9	10.742	2.57	308
TP-056 YELLOW RS	25.4	10.603	2.70	324
TP-114 ORANGE	24.9	10.672	2.65	318
TP-121 RED YS	23.2	10.917	2.53	304
TP-127 VIOLET	26.5	10.549	2.79	336
TP-155 RUBINE	26.3	10.741	2.82	338 .
TP-160 RHODAMINE	25.3	11.123	2.81	338
TP-164 RED BS	24.6	10.707	2.54	317
TP-165 MAGENTA	26.0	10.594	2.76	331
TP-230 BLUE	24.5	10.812	2.65	31B
TP-301 BLACK	25.9	11.038	2.97	356
TP-311 WHITE	15.6	13.661	2.13	256
TP-312 WHITE	16.6	14.459	2.40	288
TP-325 GREEN	24.5	11.074	2.71	326
TP-SB SHADING BLACK	26.6	10.552	2.81	337
TP-MX MIXING CLEAR	31.9	8.919	2.84	341
TP-HTY H/T YELLOW	24.9	10.825	2.69	323
TP-HTR H/T RED	25.0	10.782	2.59	323
TP-HTB H/T BLUE	25.2	10.752	2.71	325
TP-HTBK H/T BLACK	25.7	10.764	2.77	332
TP-HTEX H/T BASE	26.3	10.690	2.81	337
TPS17292 SP WHITE	16.6	14.505	2.41	289
TPS17735 PMS 551 BLUE	15.8	13.608	2.16	259
TPS17736 PMS 342 GREEN	23.5	11.291	2.65	319
TPS17758 PMS 445C DK GREEN	23.3	11.135	2.60	312
TPS17826 PMS 4725 CORDOVA	21.3	11.522	2.46	295
TPS17827 PMS 194C RED	27.5	9.893	2.72	326