
* MATERIAL SAFETY DATA SHEET *

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

FUJIFILM SERICOL USA, INC.
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HMIS RATINGS
HEALTH-----*2
FLAMMABILITY-----2
REACTIVITY-----0

EMERGENCY PHONE NUMBER PREPARER: CRAIG POGGENPOHL DATE OF PREPARATION
(816) 587-8178 REGULATORY COMPLIANCE MGR. REVISED 01/14/08/CP

REVISIONS: HMIS RATING.

***** SECTION I--PRODUCT IDENTIFICATION *****

PRODUCT CODE: PYS19049
PRODUCT NAME: SPECIAL POLYPLAST VINYL THINNER
PRODUCT CLASS: SOLVENT EVAPORATIVE SCREEN INK REDUCER

***** SECTION II--HAZARDOUS INGREDIENTS *****

COMMON NAME (CAS REGISTRY #)	PERCENT BY WEIGHT	RECOMMENDED EXPOSURE LIMITS (PPM) ¹ ACGIH TLV-TWA OSHA PEL	VAPOR PRESSURE (MM HG @ 20 C) ¹
CYCLOHEXANONE(108-94-1)	90-100	20 ²	50 2
NA - NOT APPLICABLE	NE - NOT ESTABLISHED	UKN - UNKNOWN	

¹UNLESS 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: 155-156 DEG C.
DENSITY: 7.88 LB./GAL.
VOC CONTENT OF MATERIAL: 100% OR 946 GRAMS PER LITER.
VOC CONTENT OF COATING LESS WATER AND LESS EXEMPT SOLVENTS: 946 G/L.
VAPOR DENSITY: HEAVIER THAN AIR.
EVAPORATION RATE: SLOWER THAN DIETHYL ETHER.
APPEARANCE AND ODOR: CLEAR LIQUID, STRONG, CAMPHOR-LIKE ODOR.

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

FLAMMABILITY CLASSIFICATIONS: OSHA: II DOT CLASS: COMBUSTIBLE LIQUID
CLOSED CUP FLASH POINT: 115 F. LOWER FLAMMABILITY LIMITS: 1.1
UPPER FLAMMABILITY LIMITS: 9.4

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.

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: 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 WHEN EXPOSED TO EXTREME HEAT

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

PRIMARY ROUTES OF ENTRY ARE DERMAL AND INHALATION.

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.

***** SECTION VI -- SIGNS AND SYMPTOMS OF OVER-EXPOSURE *****

ACUTE EFFECTS:

SWALLOWING: MAY CAUSE HEADACHES, NAUSEA, VOMITING, DIZZINESS, OR GENERAL WEAKNESS. POSSIBLE KIDNEY DAMAGE MAY RESULT FROM INGESTION OF LARGE QUANTITIES OF MATERIAL.

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

INHALATION: EXCESSIVE INHALATION CAN CAUSE NARCOSIS, HEADACHE, DROWSINESS, TREMORS AND OTHER CENTRAL NERVOUS SYSTEM EFFECTS. VAPORS HAVE AN OBJECTIONABLE ODOR.

SKIN CONTACT: MAY CAUSE SLIGHT IRRITATION WITH PROLONGED CONTACT. PROLONGED AND REPEATED OVER EXPOSURE MAY RESULT IN DERMATITIS.

EYE CONTACT: EYE CONTACT WITH THE LIQUID CAN CAUSE MODERATE TO SEVERE IRRITATION AND REVERSIBLE CORNEAL INJURY. VAPORS ARE MILDLY IRRITATING TO THE EYES.

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

CHRONIC EFFECTS: IN ANIMAL STUDIES, REPEATED OVEREXPOSURE HAS CAUSED LIVER AND KIDNEY INJURY.

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

***** SECTION VII -- REACTIVITY DATA *****

THIS MIXTURE IS STABLE AND HAZARDOUS POLYMERIZATION WILL NOT OCCUR.

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

HAZARDOUS DECOMPOSITION PRODUCTS: CARBON MONOXIDE, 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: 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 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 ATTEMPTING ANY 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.

***** SECTION X -- SPECIAL PROCEDURES *****

STORAGE AND HANDLING: AVOID CONDITIONS LISTED IN SECTION VII. AVOID

PROLONGED STORAGE AT TEMPERATURES IN EXCESS OF 100 F.

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***** 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 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.

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***** SECTION XII -- CUSTOMER'S 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.

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 DOES NOT CONTAIN CHEMICALS KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER OR REPRODUCTIVE TOXICITY.