

MSDS# XHR-FPA

FUJIFILM SERICOL USA, 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).

EMERGENCY PHONE NUMBER PREPARER: CRAIG POGGENPOHL DATE OF PREPARATION
 (816) 587-8178 REGULATORY COMPLIANCE MGR. REVISED 09/10/07/CP

REVISIONS: SECTIONS II, III AND XIII.

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 SECTION I--PRODUCT IDENTIFICATION
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PRODUCT CODE : XHR-FPA
 LABEL IDENTITY: HAZE REMOVER FAST 2 PACK "A"
 PRODUCT CLASS : SCREEN RECLAMATION CHEMICAL

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 SECTION II--HAZARDOUS INGREDIENTS
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COMMON NAME (CAS REGISTRY #)	PERCENT BY WEIGHT	RECOMMENDED EXPOSURE LIMITS (PPM) ¹ ACGIH TLV-TWA OSHA PEL	VAPOR PRESSURE (mm Hg @ 20 C) ¹
METHYLPYRROLIDONE (872-50-4)!	7-13	10 ^{2,3} ! NE	< 0.3
TETRAHYDROFURFURYL ALCOHOL (97-99-4)	10-30	2 ³ NE	0.2
PROPANETRIOL (56-81-5)	5-10	NE NE	3.0
DIPROPYLENE GLYCOL ME ETHER (34590-94-8)	7-13	100 ² 100 ²	0.1
SURFACTANT (TRADE SECRET)	3-7	(STEL 150) NE NE	NA

NA - NOT AVAILABLE NE - NOT ESTABLISHED UKN - UNKNOWN

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

² 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 AIHA WORKPLACE ENVIRONMENTAL EXPOSURE LEVELS (WEELs).

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 SECTION III -- PHYSICAL AND CHEMICAL CHARACTERISTICS
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INITIAL BOILING POINT: 350 F.
 VAPOR DENSITY: HEAVIER THAN AIR.
 DENSITY: 8.56 LB./GAL.
 SOLUBILITY IN WATER: PARTIAL.
 VOC CONTENT OF MATERIAL: 38.81% BY WEIGHT OR 399 GRAMS/LITER.
 EVAPORATION RATE: SLOWER THAN DIETHYL ETHER.
 APPEARANCE AND ODOR: GELLED LIQUID, HAZY COLOR, CHARACTERISTIC ODOR.
 pH OF PART A AND PART B MIXED IN 1 TO 1 RATIO: APPROXIMATELY 12.5

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 SECTION IV -- PHYSICAL HAZARD DATA
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FLAMMABILITY CLASSIFICATIONS: OSHA: CLASS IIIA DOT: COMBUSTIBLE LIQUID
CLOSED CUP FLASH POINT: 165 DEG.F.
EXPLOSIVE LIMITS(%VOLUME IN AIR): LOWER: UKN UPPER: UKN

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

WATER SPRAY CO2 DRY CHEMICAL FOAM

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.

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SECTION V -- EMERGENCY AND FIRST AID PROCEDURES

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PRIMARY ROUTES OF ENTRY ARE DERMAL AND INHALATION.

FOR SWALLOWING: Drink two glasses of water to dilute. Do not induce vomiting. Consult physician or poison control center immediately. Never give any thing by mouth to an unconscious person. 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.

SPECIAL NOTES TO ATTENDING PHYSICIAN: There is no specific antidote. Treatment of overexposure should be directed at the control of the symptoms and the clinical condition.

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SECTION VI -- SIGNS AND SYMPTOMS OF OVEREXPOSURE

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ACUTE EFFECTS:

SWALLOWING: Swallowing small amounts of this material during normal handling is not likely to cause harmful effects. Swallowing large amounts may be harmful. This material can get into the lungs during swallowing or vomiting. This results in lung inflammation and other lung injury.

SKIN ABSORPTION: Skin absorption may contribute to symptoms of toxicity from other routes of exposure.

INHALATION: Breathing of vapor or mist is possible. Breathing this material

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may be harmful. May cause nose, throat, and respiratory tract irritation. May cause central nervous system depression.

SKIN CONTACT: Can cause skin irritation. Prolonged or repeated contact may dry the skin. Symptoms may include redness, burning, and drying and cracking of skin, burns and other skin damage. Additional symptoms of skin contact may include: allergic skin reaction (delayed skin rash which may be followed by blistering, scaling and other skin effects).

EYE CONTACT: Can cause severe eye irritation. Symptoms include stinging, tearing, redness, and swelling of eyes. Can injure eye tissue.

MEDICAL CONDITIONS KNOWN TO BE AGGRAVATED BY OVEREXPOSURE: Pre-existing skin and lung disorders.

CHRONIC EFFECTS: Overexposure to Methylpyrrolidone has been suggested as a cause of the following effects in laboratory animals: damage to the blood-forming system, male and female reproductive fertility effects. Repeated overexposure may cause damage to kidneys and liver.

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
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This mixture is stable and hazardous polymerization will not occur.

INCOMPATIBILITY (MATERIALS TO AVOID): Strong Oxidizing or reducing agents, strong acids.

HAZARDOUS DECOMPOSITION PRODUCTS: Carbon dioxide, carbon monoxide, and oxides of nitrogen.

CONDITIONS TO AVOID: Excessive temperatures.

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SECTION VIII -- SPILL OR LEAK PROCEDURES
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STEPS TO BE TAKEN IF MATERIAL IS SPILLED OR RELEASED: Small spills may be collected with absorbent materials. For large spills, use water spray to dilute. Collect for disposal 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 an industrial waste, this product may be regulated for disposal purposes in your locality. Consult your local, state and federal agencies for laws and regulations governing the disposal of industrial waste in your area. Refer to sections IV, V, VI, VII and IX of this document before attempting any cleanup.

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SECTION IX -- SAFE HANDLING AND USE INFORMATION
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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.

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PROTECTIVE GLOVES: Rubber or neoprene to minimize skin contact.
EYE PROTECTION: Safety glasses or goggles when splash hazard is present.
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: Safety shower and eye bath should be made available.

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SECTION X -- SPECIAL PROCEDURES
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TRANSPORTATION, STORAGE AND HANDLING: Avoid conditions listed in Section VII. Avoid extreme temperatures. Avoid contact with clothing and skin.

OTHER PRECAUTIONS: None.

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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 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 -- 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.

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.

N-METHYL-2-PYRROLIDONE
CAS# 872-50-4
9% 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 CONTAINS METHYLPYRROLIDONE, A CHEMICAL KNOWN TO THE STATE OF CALIFORNIA TO CAUSE REPRODUCTIVE TOXICITY.

STATE OF CALIFORNIA: THIS PRODUCT IS NOT "PHOTOCHEMICALLY REACTIVE" BY DEFINITION OF RULE 102 OF THE SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT.