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NOTE

IF (R*) APPEARS IN THIS DOCUMENT IT REPRESENTS "REGISTERED TRADEMARK".

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COVER LETTER
FOR
HEWLETT-PACKARD
LASERJET 4L/4ML & 4P/4MP
TONER CARTRIDGE
P/N 92274A

THE HEWLETT-PACKARD 92274A TONER CARTRIDGE, NOR THE CONTENTS OF THE CARTRIDGE, IS NOT A HAZARDOUS ITEM AS DESCRIBED BY ANY KNOWN FEDERAL OR STATE LAWS.

BECAUSE HEWLETT-PACKARD RECEIVES MANY INQUIRIES AS TO THE MAKEUP OF THE TONER CARTRIDGES USED IN THE LASERJET FAMILY OF PRINTERS, HEWLETT-PACKARD AND CANON HAVE CHOSEN TO PROVIDE ANSWERS TO THESE INQUIRIES BY PROVIDING THE INFORMATION IN THE MATERIAL SAFETY DATA SHEET (MSDS) FORMAT. THE USE OF THIS FORMAT IS CHOSEN AS IT AIDS READERS FAMILIAR WITH THE MSDS FORMAT IN IDENTIFYING QUICKLY THE INFORMATION THEY SEEK.

THE PROVISION OF AN MSDS AND THE USE OF THE FORMAT IN NO WAY IMPLIES AN INFERIOR OR UNSAFE PRODUCT. THIS FORMAT SIMPLY PROVIDES THE REQUESTED INFORMATION IN A FAMILIAR LAYOUT.

THE FOLLOWING ITEM IS FOR CORRELATION PURPOSES:

PART NO.	DESCRIPTION	PRINTER
92274A	TONER CARTRIDGE	LASERJET 4L (C2003A) LASERJET 4ML (C2015A) LASERJET 4P (C2005A) LASERJET 4MP (C2040A)

JULY 15, 1994
MSDSCVR.PIC

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CANON

MATERIAL SAFETY DATA SHEET

CANON U.S.A., INC.
ONE CANON PLAZA
LAKE SUCCESS, NY 11042
TELEPHONE: 516-328-5600

24 HR. EMERGENCY CONTACT
CHEMTREC: 800-424-9300

DATE OF PREPARATION: 7/92
DATE OF REVISION: 6/93

-----SECTION 1 PRODUCT IDENTIFICATION -----

TRADE NAME: EP-P CARTRIDGE FOR LASER BEAM PRINTER

PRODUCT DESCRIPTION: AN ASSEMBLY FOR LASER BEAM PRINTER, COMPOSED OF A PHOTO-SENSITIVE DRUM, TONER POWDER, A DEVELOPER UNIT, A CHARGER-ROLLER AND A CLEANER BLADE.

ITEM NO: R74-2001-000, R74-2002, R74-2003, R74-2004

NFPA HMIS RATING: HEALTH: 0, FLAMMABILITY: 1, REACTIVITY: 1

-----SECTION 2 INGREDIENTS OF TONER -----

PRINCIPAL COMPONENTS	(CAS NO.)	WT. %	OSHA (PEL) ACGIH (TLV)
STYRENE ACRYLATE COPOLYMER		45-55	N/A
IRON OXIDE	(1317-61-9)	45-55	N/A

-----SECTION 3 PHYSICAL DATA -----

APPEARANCE AND ODOR: FINE POWDER, SLIGHT PLASTIC ODOR.
BOILING POINT (C) : N/A
MELTING POINT: 100 - 150 C
VAPOR PRESSURE (MMHG.): NEGLIGIBLE
VAPOR DENSITY (AIR=1): N/A
SOLUBILITY IN WATER: NEGLIGIBLE
SOLUBILITY IN ORGANIC SOLVENTS: PARTIALLY SOLUBLE IN TOLUENE AND XYLENE.
SPECIFIC GRAVITY (WATER=1): 1.5 - 1.8
PERCENT VOLATILE BY VOLUME: NEGLIGIBLE
EVAPORATION RATE (BUTYL ACETATE=1): NEGLIGIBLE
PH IN CONCENTRATE: CANNOT BE DETERMINED
PH IN DILUTION AS USED: CANNOT BE DETERMINED

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-----SECTION 4 FIRE AND EXPLOSION HAZARD DATA -----

FLASH POINT (METHOD USED): N/A
IGNITION TEMPERATURE: N/A
FLAMMABILITY: NON-FLAMMABLE SOLID (ACCORDING TO TEST METHOD
16 CFR 1500.44)
FLAMMABLE LIMITS: N/A
EXTINGUISHING MEDIA: WATER, DRY CHEMICALS, CARBON DIOXIDE
SPECIAL FIRE FIGHTING PROCEDURES: NONE

UNUSUAL FIRE AND EXPLOSION HAZARDS: THIS MATERIAL, LIKE MOST ORGANIC MATERIAL IN POWDER FORM, IS CAPABLE OF CREATING A DUST EXPLOSION.

-----SECTION 5 HEALTH HAZARD DATA -----

TONER POWDER IS NOT ACCESSIBLE, UNTIL THE CARTRIDGE IS FORCED TO BE BROKEN.

A. EXPOSURE LIMITS:

OSHA (TWA/PEL): 15 MG/M3 (TOTAL DUST)
5 MG/M3 (RESPIRABLE FRACTION)
ACGIH (TWA/TLV): 10 MG/M3 (TOTAL DUST)

B. EFFECTS OF OVEREXPOSURE: MINIMAL RESPIRATORY TRACT IRRITATION MAY OCCUR AS WITH EXPOSURE TO LARGE AMOUNTS OF ANY NON TOXIC DUST.

INHALATION: TONER IS A FINELY DIVIDED SOLID. DO NOT BREATHE THE DUST.
EYE CONTACT: ANY MATERIAL THAT CONTACTS THE EYE MAY BE IRRITATING.
NO SPECIFIC HAZARD IS KNOWN TO CANON.
SKIN CONTACT: LOW HAZARD FOR INDUSTRIAL HANDLING.
NO DATA AVAILABLE FOR CHRONIC EFFECTS OF OVEREXPOSURE.

C. TOXICITY DATA:

TEST	SPECIES	RESULT
MUTAGENICITY	S. TYPHIMURIUM	NEGATIVE

-----SECTION 6 EMERGENCY FIRST AID PROCEDURES -----

INHALATION: REMOVE FROM EXPOSURE TO FRESH AIR.
EYE CONTACT: OPEN EYE AND FLUSH WITH PLENTY OF WATER. IF IRRITATION PERSISTS GET MEDICAL ATTENTION.
SKIN CONTACT: WASH WITH SOAP AND WATER.
INGESTION: DRINK SEVERAL GLASSES OF WATER. CALL A PHYSICIAN.

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-----SECTION 7 REACTIVITY DATA -----

STABILITY: STABLE
 INCOMPATIBILITY: STRONG OXIDIZERS
 HAZARDOUS DECOMPOSITION PRODUCTS: AS WITH ANY OTHER ORGANIC MATERIAL,
 DECOMPOSITION WILL PRODUCE CARBON
 DIOXIDE AND CARBON MONOXIDE.
 HAZARDOUS POLYMERIZATION: WILL NOT OCCUR.

-----SECTION 8 SPILL, LEAK AND DISPOSAL PROCEDURES -----

SPILLS & LEAKS: SWEEP MATERIAL ONTO PAPER AND PLACE IN FIBER CARTON.
 DISPOSAL METHOD: NO SPECIAL DISPOSAL TECHNIQUE IS REQUIRED. ENSURE
 COMPLIANCE WITH FEDERAL, STATE AND/OR LOCAL REGULATIONS.
 TONER MAY BE CONSIDERED PLASTIC WASTE.
 CARTRIDGE IS CONSTRUCTED OF PLASTICS AND METALS.

-----SECTION 9 SPECIAL PROTECTION INFORMATION -----

VENTILATION: GOOD GENERAL VENTILATION SHOULD BE SUFFICIENT
 PROTECTION GLOVES: NONE REQUIRED
 EYE PROTECTION: NONE REQUIRED
 OTHER PROTECTIVE EQUIPMENT: NONE.

-----SECTION 10 SPECIAL PRECAUTIONS -----

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING:
 KEEP OUT OF REACH OF CHILDREN.
 KEEP FROM CONTACT WITH OXIDIZING MATERIALS.

-----SECTION 11 REGULATORY INFORMATION -----

CHEMICALS REQUIRED TO BE REPORTED UNDER SARA TITLE III, CERCLA:
NONE.

DEPARTMENT OF TRANSPORTATION

PROPER SHIPPING NAME: MAGNETIZED MATERIAL
 HAZARD CLASS: 9
 UN ID NO.: 2807

ALL COMPONENTS ARE REGISTERED IN ACCORDANCE WITH TSCA.

THIS INFORMATION RELATES ONLY TO THE SPECIFIC MATERIAL DESIGNATED AND MAY NOT BE VALID FOR SUCH MATERIAL USED IN COMBINATION WITH ANY OTHER MATERIAL OR IN ANY PROCESS. AND IT IS BASED ON THE LEVEL OF OUR KNOWLEDGE AS OF THE DATE OF PREPARATION.

PREPARED BY: JOSEPH PALMERI
 TITLE: REGULATORY COMPLIANCE SPECIALIST
 TELEPHONE NO.: (516) 328-5600