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MSDS-2845

HP P/N 92291A

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DOLPHIN NOTE

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

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COVER LETTER
for
Hewlett-Packard
LaserJet IIIISi & 4Si
Toner Cartridge

P/N 92291A

The Hewlett Packard 92291A toner cartridge, and the contents of the cartridge, are NOT a hazardous items 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 a 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.

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Part No.	Description	Printer
92291A	Toner Cartridge	LaserJet IIIISi (33471A & 33471AB)
		LaserJet 4Si (C2010A & C2011A)

July 15, 1994
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CANON

MATERIAL SAFETY DATA SHEET

MANUFACTURER: CANON U.S.A., INC.
 ONE CANON PLAZA
 LAKE SUCCESS, NY 11042
 TELEPHONE: 516-488-6700

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

DATE OF PREPARATION: 7/91
 DATE OF REVISION: 3/93

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

PRODUCT NAME: EP-N, EP-NII CARTRIDGE BLACK

DESCRIPTION : ASSEMBLY FOR EP-N, EP-NII CARTRIDGE IS COMPOSED OF A
 PHOTSENSITIVE DRUM, TONER, DEVELOPER UNIT, A CHARGER-
 ROLLER AND CLEANER BLADE.

CANON ITEM NO: R64-2001, R64-2002, R64-2005, R64-2014

NFPA HMIS RATINGS: HEALTH:=0, FLAMMABILITY:=1, REACTIVITY:=0

-----SECTION 2 INGREDIENTS (TONER) -----

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

MANUFACTURER CONTACT STATES ALL OTHER INFORMATION IS PROPRIETARY.

N/A = NOT APPLICABLE

CONCERNING CARCINOGENICITY, THE INGREDIENTS LISTED ABOVE ARE NOT LISTED
 ON THE LATEST NTP ANNUAL REPORT, IARC MONOGRAPHS, OR OSHA REGULATIONS.

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

BOILING POINT:	NOT AVAILABLE FOR SOLID MIXTURES.
MELTING POINT:	100 - 150 DEG. 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 (H2O=1):	1.4 - 1.6
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 CHEMICAL, 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, UNLESS CARTRIDGE IS FORCED, OR BROKEN INTO.

- A. EXPOSURE LIMITS: SEE SECTION 2.
 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 DUST.

C. TOXICITY DATA:

TEST	SPECIES	RESULT
MUTAGENICITY	S. TYPHIMURIUM	NEGATIVE

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

INHALATION: REMOVE FROM EXPOSURE.
 EYE: NO SPECIFIC HAZARD IS KNOWN TO CANON. HOWEVER, ANY MATERIAL THAT CONTACTS THE EYE MAY BE IRRITATING. IN CASE OF EYE CONTACT, FLUSH WITH PLENTY OF WATER. IF IRRITATION PERSISTS CONTACT A PHYSICIAN.
 SKIN: WASH WITH SOAP AND WATER.

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

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

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

SPILLS & LEAKS: NO TONER SPILLAGE OCCURS IN NORMAL OPERATION OR HANDLING. IF IT SHOULD OCCUR, AVOID INHALATION OF DUST AND SWEEP MATERIAL ONTO PAPER FOR DISPOSAL.

DISPOSAL METHOD: NO SPECIAL DISPOSAL TECHNIQUE REQUIRED. ENSURE COMPLIANCE WITH FEDERAL, STATE AND/OR LOCAL REGULATIONS. EXHAUSTED CARTRIDGE(S) MAY BE CONSIDERED PLASTIC WASTE AND IS COMPOSED OF PLASTIC AND METALS.

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

VENTILATION: GOOD GENERAL VENTILATION SHOULD BE SUFFICIENT.

PROTECTIVE 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 AWAY FROM CONTACT WITH OXIDIZING MATERIALS.

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

CHEMICALS REQUIRED TO REPORT UNDER SARA TITLE III, CERCLA: NONE

DEPARTMENT OF TRANSPORTATION

PROPER SHIPPING NAME: MAGNETIZED MATERIAL (10 OR MORE CARTRIDGES)
HAZARD CLASS: 9
UN ID NO.: UN 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 OTHER PROCESS.