

#79186

MSDS-2846

HP P/N 92295A

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HEWLETT-PACKARD COMPANY
BOISE DIVISION
POST OFFICE BOX 15
BOISE, IDAHO 83707-0015

COVER LETTER
FOR
CANON EP-S CARTRIDGE
DISTRIBUTED AS
HEWLETT PACKARD 92295A

The Hewlett-Packard 92295A (EP-S) 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 for 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
92295A	EP-S Cartridge	LaserJet II (33440A & 33440AB)
		LaserJet IID (33447A & 33447AB)
		LaserJet III (33449A & 33449AB)
		LaserJet IIID (33459A & 33459AB)

July 15, 1994
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CANON

MSDS#: LBP-0024-003

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: 10/87
DATE OF REVISION: 3/94

-----SECTION 1 CHEMICAL PRODUCT AND COMPANY IDENTIFICATION -----

1.1 IDENTIFICATION OF THE SUBSTANCE OF PREPARATION

PRODUCT NAME: EP-S CARTRIDGE BLACK
ITEM NOS: R64-0001, R64-0002 (Weight) N/A

DESCRIPTION: An assembly for Laser beam Printer, composed of a photosensitive drum, toner powder, developer unit, corona unit and a cleaner blade. The toner powder cannot be removed unless the cartridge is forced and broken.

1.2 COMPANY/UNDERTAKING IDENTIFICATION

Manufacturer: Canon Inc, Tokyo Japan
30-2, Shimomaruko 3-Chome, Ohta-Ku
Tokyo Japan
Phone: 03-3758-2111
Supplier: Canon USA, Inc.
One Canon Plaza
Lake Success, NY 11042
Phone: (516) 328-5600

For other Information; call the Marketing and Distribution Center in Your Area.

-----SECTION 2 COMPOSITION/INFORMATION ON INGREDIENTS -----

Weight %	(CAS Registry No.)	Component
60 - 70	-----	Styrene Acrylate Copolymer
30 - 40	1317-61-9	Iron Oxide

(See SECTION 8 for Exposure Limits.)

MANUFACTURER CONTACT STATES ALL OTHER INFORMATION IS PROPRIETARY.

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-----SECTION 3 HAZARDS IDENTIFICATION -----

Toner Low Hazard For Recommended Handling.

-----SECTION 4. FIRST AID MEASURES-----

Inhalation: If symptomatic, move to fresh air. Get medical attention if symptoms persist.

Eyes: Any material that contacts the eye should be washed out immediately with water. Get medical attention if symptoms occur.

Skin: Wash with soap and water. Get medical attention if symptoms occur.

Ingestion: Drink 1-2 glasses of water. Seek medical attention.

-----SECTION 5. FIRE FIGHTING MEASURES -----

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 SPRAY, DRY CHEMICAL, CARBON DIOXIDE (CO2)

SPECIAL FIRE FIGHTING PROCEDURES: NONE

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

-----SECTION 6. ACCIDENTAL RELEASE MEASURES-----

No toner, spillage occurs in normal operation or handling. If it should occur, avoid inhalation of the dust. Sweep material onto paper and dispose collected toner as plastic waste.

-----SECTION 7. HANDLING AND STORAGE-----

Personal Precautionary Measures: Avoid breathing dust. Use with adequate ventilation. Wash thoroughly after handling.

Prevention of Fire and Explosion: Keep from contact with oxidizing materials. Minimize dust generation and accumulation. Refer to Pamphlet No. 654, (Prevention of Fire and Dust Explosions in the Chemical, Dye, Pharmaceutical and Plastics Industries." Use adequate ventilation.

Storage: Store in a cool place.

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-----SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION-----

Exposure Limits: OSHA (TWA/Pel): 15mg/m3 (Total Dust)
5mg/m3 (Respirable Fraction)
ACGIH (TWA/TLV): 10mg/m3 (Total Dust)

Ventilation: Good Ventilation (typically 4-6 room volumes per hour) should be used. Ventilation rates should be matched to conditions.

Personal Protection: Good industrial hygiene practice should be followed which includes preventing eye contact, minimizing skin contact and inhalation.

Respiratory Protection: None should be needed.

Eye Protection: It is good industrial hygiene practice to minimize eye contact.

Skin Protection: For operations where prolonged or repeated skin contact may occur, impervious gloves should be worn.

Recommended Decontamination Facilities: Washing facilities.

-----SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical Form:	Fine powder
Color:	Black
Odor:	Typical plastic odor
Specific Gravity: (Water=1):	1.4 - 1.6
Vapor Density (Air =1):	N/A
Evaporation Rate (n-Butyl Acetate=1)	N/A
Volatile Fraction by Weight:	Negligible
Melting Point:	100 - 150 Degrees Centigrade
Solubility in Water:	Negligible
Solubility in Organic Solvents:	partially soluble in toluene and xylene.
pH:	N/A

-----SECTION 10. STABILITY AND REACTIVITY-----

Stability:	Stable
Incompatibility:	Strong oxidizing agents.
Hazardous Polymerization:	Will not occur.
Hazardous Decomposition Products:	Combustion will produce carbon dioxide, and carbon monoxide.

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-----SECTION 11. TOXICOLOGICAL INFORMATION-----

EFFECTS OF OVEREXPOSURE:

Health Hazards of Long-Term Exposure (Chronic): Based upon available data, human exposure to toner has been shown to cause minimal respiratory tract irritation as may occur with large amounts of any nontoxic dusts. The results of one animal study where rats inhaled toner that was ten times more respirable than commercially available toner were observed to have no lung changes at low exposures (the most relevant level to potential human exposure). At higher levels a slight degree of lung fibrosis was observed due to excessive amounts of dust retained in the lungs for a prolonged interval.

- INHALATION: Expected to be a low hazard for recommended handling.
- EYE: No specific hazards known. May cause transient irritation.
- SKIN: Expected to be low hazard for recommended handling.
- INGESTION: Expected to be low ingestion hazard.

Salmonella typhimurium assay (Ames test): Negative

-----SECTION 12. ECOLOGICAL INFORMATION-----

This material has not been tested for environmental effects. In a spill situation this material may be visually unpleasant; however, it is not expected to cause any adverse environmental effects.

-----SECTION 13. DISPOSAL CONSIDERATIONS-----

Incinerate or landfill, Can be incinerated when in compliance with local regulations. Discharge, treatment, or disposal may be subject to national state, or local laws.