

Item #

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MSDS-2845

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JUN 17 1999

**PRODUCT INFORMATION SHEET**

Hewlett-Packard Company  
11311 Chinden Boulevard  
Boise, ID 83714  
Emergency Telephone Number: (208) 396-6000

DATE OF PREPARATION: 12/92

DATE OF REVISION: 8/93

**IDENTIFICATION**TRADE NAME: EP-E CARTRIDGE

HP PRODUCT NUMBER: 92298A

PRODUCT DESCRIPTION: An assembly for Laser Beam printer composed of a photosensitive drum, toner powder, developer unit, charger roller and cleaner blade.

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

**INGREDIENTS (TONER)**

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

**PHYSICAL DATA (TONER)**

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 & 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.  
APPEARANCE AND ODOR: Black fine powder, slight plastic odor

## FIRE AND EXPLOSION HAZARD DATA OF TONER

FLASH POINT: 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.

## HEALTH HAZARD DATA

\*\* Toner powder is not accessible, unless the cartridge is forced, or broken into. \*\*

A. EXPOSURE LIMITS: See Section 2

OSHA (TWA/PEL) = 15.0 mg/m<sup>3</sup> (Total dust)  
5.0 mg/m<sup>3</sup> (Respirable Fraction)

ACGIH (TWA/TLV) = 10.0 mg/m<sup>3</sup> (Total dust)

B. EFFECTS OF OVEREXPOSURE:

INHALATION: Gasping, Do not breathe dust.

EYE CONTACT: No specific hazard is known to Canon. However, any material contacting the eye may be irritating.

SKIN CONTACT: Low hazard for industrial handling.

INGESTION: Not typical route of entry during ordinary use.

No data available for chronic effects of overexposure.

C. TOXICITY DATA:

Mutagenicity: Negative (Test species *S. Typhimurium*)

## EMERGENCY FIRST AID

INHALATION: Remove from exposure.

EYE: In case of eye contact, flush eye with plenty of water. If irritation persists contact a physician.

SKIN: Wash with soap and water.

## REACTIVITY DATA

STABILITY: Stable

INCOMPATIBILITY: 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.

## **SPILL, LEAK AND DISPOSAL PROCEDURES**

**SPILLS & LEAKS:** No toner spillage occurs in normal operation or handling. If it should occur, avoid inhalation. Sweep material onto paper and place in fiber carton.

**DISPOSAL METHOD:** No special disposal technique required. Ensure compliance with federal, state and or local regulations. Cartridge may be considered plastic waste. This cartridge is composed of plastics and metals.

## **SPECIAL PROTECTION INFORMATION**

**VENTILATION:** Good general ventilation should be sufficient

**PROTECTION GLOVES:** None required      **EYE PROTECTION:** None required

**OTHER PROTECTIVE EQUIPMENT:** None.

## **SPECIAL PRECAUTIONS**

**PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING:**

Keep out of reach of children.

Keep from contact with oxidizing materials.

## **REGULATORY INFORMATION**

**CHEMICALS REQUIRED TO REPORT UNDER SARA TITLE III SUBSECTION 313:** None

**DEPARTMENT OF TRANSPORTATION**

Proper Shipping Name: Magnetized Material (13 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 process.