MSDS-2845

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: HP-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)

<table>
<thead>
<tr>
<th>PRINCIPAL COMPONENT(S)</th>
<th>CAS NO.</th>
<th>WT %</th>
<th>OSHA (PEL)</th>
<th>ACGIH (TLV)</th>
</tr>
</thead>
<tbody>
<tr>
<td>STYRENE ACRYLATE COPOLYMER</td>
<td></td>
<td>45-55</td>
<td>N/A</td>
<td></td>
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<tr>
<td>IRON OXIDE</td>
<td>1317-61-9</td>
<td>45-55</td>
<td>N/A</td>
<td></td>
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</tbody>
</table>

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/m³ (Total dust)
   5.0 mg/m³ (Respirable Fraction)
   ACGIH (TWA/TLV) = 10.0 mg/m³ (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.