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# MATERIAL SAFETY DATA SHEET

MSDS-2691

HP P/N 51626A

CIC MSDS #2691  
HP FIRST #2403

HP P/N 51626A

Product Name: Print Cartridges for DeskJet, DeskJet Plus, DeskJet 500, DeskJet 500C, Deskjet 550C, DeskWriter, DeskWriter C, DeskWriter 550C, DesignJet, DesignJet 600, Fax 200, Fax 300, and Fax 310.

HP Product Numbers: 51626A (Plain Paper, High Capacity Black)

-----1. GENERAL -----

Manufacturer's Name: Hewlett-Packard Company  
Emergency Phone Number for Ingestion: Call local Poison Control Center  
Backup Emergency Phone Number and Product Information: (503) 757-2000

NOTE: All data presented below refer to the ink in above products. Print cartridges are exempted as articles from the OSHA Communication Standard. This MSDS is made available by Hewlett-Packard as a service to its customers.

-----2. INGREDIENTS (% wt/wt) (PEL or TLV) -----

2-Pyrrolidone <12% CAS # 616-45-5 (No workplace exposure limits)  
Various Dyes < 4% - Identity of dyes held as a trade secret (No workplace exposure limits defined for any dye)  
Water and minor ingredients < 95%

-----3. PHYSICAL AND CHEMICAL CHARACTERISTICS -----

Boiling Point: above 110 DEG. C  
Vapor Pressure: 15 mm Hg at 20 DEG. C\*  
Specific Gravity: 1.1  
Vapor Density: 3.0\*  
Solubility in Water: Completely Miscible  
Freezing Point: below 0 DEG. C\*  
Appearance and Odor: Black liquid, practically odorless

\*estimate

Note: If (R\*) appears in this document it represents "Registered Trademark".

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-----4. FIRE AND EXPLOSION HAZARD DATA -----

Flash Point: >124 DEG. C\*  
Autoignition Temp.: >230 DEG. C\*  
Extinguishing Media: Water, dry chemical, carbon dioxide, foam  
Special Firefighting Procedures: None

-----5. REACTIVITY DATA -----

Stability (Conditions to Avoid): Stable under normal storage conditions  
Incompatibility (Materials to Avoid): None  
Hazardous Decomposition Products: None  
Hazardous Polymerization: Will not occur

-----6. HEALTH HAZARD DATA -----

Routes of Entry: Skin and ingestion. Inhalation is unlikely to be a route of entry.

Acute Health Hazards:  
Oral - black ink LD50 >2000 mg/kg\*  
Dermal - black ink LD50 > 2000 mg/kg\*

Skin Irritation: non-irritating  
Eye Irritation: non-irritating  
Mutagenicity: non-mutagenic  
Carcinogenicity: No components are listed carcinogens in the NTP Annual Report or found to be carcinogenic by IARC or OSHA.

-----7. FIRST AID -----

Signs and Symptoms of Exposure: Dyes in ink make exposure easy to detect. Symptoms of exposure are described below.  
Eyes: Contact with eyes may cause irritation. Flush with large amounts of warm water for at least 15 minutes.  
Skin: None of the inks are toxic by skin contact. Contact with skin may cause irritation. Wash affected area with soap and water.  
Oral: Ingestion of ink may result in gastric disturbances. Dilute with water. Get medical attention.

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## -----8. PRECAUTIONS FOR SAFE HANDLING AND USE -----

Handling and Storage: Keep out of the reach of children. Avoid contact between the gold cartridge face and eyes, skin and clothing. Rapid removal of ink with soap and water from skin prevents irritation and staining.

Leaks: Use absorbent towel to wipe up ink. Rinse area with damp cloth to remove remaining traces of ink.

Disposal of Used Print Cartridges: Dispose of in accordance with all applicable federal, state and local laws.

## -----9. CONTROL MEASURES -----

No special control measures are required when using print cartridges.

## -----10. REGULATORY INFORMATION (Not meant to be all-inclusive) -----

Toxic Substances Control Act - all components listed in TSCA Inventory or exempted under 40 CFR 723.50

SARA 313 - pens are exempted as articles

DOT/IATA - pens are not regulated by DOT 49 CFR or IATA

California Proposition 65 - no listed chemicals

Canadian Ingredient Disclosure List - no listed chemicals

Massachusetts Substance List - no listed chemicals

New Jersey Right to Know List - no listed chemicals

Pennsylvania Hazardous Substance List - no listed chemicals

Date Prepared: November 12, 1992

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DISCLAIMER: This Material Safety Data Sheet is offered without charge to the customers of Hewlett-Packard. Data is the most current known to Hewlett-Packard at the time of preparation and is believed to be accurate. No warranty as to its accuracy or completeness is expressed or implied.

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