

#58140

Pg 1



## MATERIAL SAFETY DATA SHEET

MSDS-2772

HP P/N 51640A

CIC MSDS #2772  
HP FIRST #2405HP P/N 51640A  
P/N 51640C  
P/N 51640M  
P/N 51640Y

Product Name: Print Cartridges for HP DeskJet 1200C

HP Product Numbers: 51640A (black) 51640M (magenta)  
51640C (cyan) 51640Y (yellow)

### 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)
Water (CAS# 7732-18-5) (GT)75%	(No workplace exposure limits)
2-Ethyl-2-(Hydroxymethyl)- 1,3-propanediol (CAS# 77-99-6) (LT)20%	(No workplace exposure limits)
Diethylene Glycol (CAS# 111-46-6) (LT)15% (Black ink)	(No workplace exposure limits)
Dipropylene Glycol (CAS# 25265-71-8) < 10% (Magenta, Yellow and Cyan inks)	(No workplace exposure limits)
Resin Plasticizer (CAS# Trade Secret) < 10%	(No workplace exposure limits)
Colorant and Various Dyes (LT)4% - Identity of dyes held as a trade secret	(No workplace exposure limits defined for any dye)
*estimate (LT) = LESS THAN	(GT) = GREATER THAN

### 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, Cyan, Magenta and Yellow liquids.

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

58140

58140

pg 2

4. FIRE AND EXPLOSION HAZARD DATA

Flash Point: (GT)124 DEG. C\* Autoignition Temp.: (GT)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 known

Hazardous Decomposition Products: None known

Hazardous Polymerization: Will not occur

6. HEALTH HAZARD DATA

Signs and Symptoms of Exposure: Dyes in ink make exposure easy to detect. Symptoms of exposure are described below.

Routes of Entry: Skin, ingestion and inhalation.

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

Skin Irritation: ink non-irritating

Eye Irritation: Contact with eyes may cause mild irritation.

Inhalation: exposure limits (none established)

Mutagenicity: non-mutagenic

Chronic Health Hazards:

Carcinogenicity: No components are listed carcinogens in the NTP Annual Report or found to be carcinogenic by IARC or OSHA.

\* estimate

(LT) = less than

(GT) = greater than

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58140

Pg 3

**7. FIRST AID**

**Eyes:** Flush with large amounts of warm water for at least 15 minutes.

**Skin:** Wash affected area with soap and water.

**Oral:** Dilute with water. Get medical attention for any breathing difficulty.

**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. Use protective clothing, gloves, and eyewear as appropriate to prevent exposure to the cartridge if leaking.

**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 exempt under 40 CFR 723.50

SARA 313 - pens are exempt 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 - colorant

Pennsylvania Hazardous Substance List - diethylene glycol

Date Prepared: January 14, 1993

Prepared By: Michael Holcomb

**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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