



# MATERIAL SAFETY DATA SHEET

## 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

**Identification of the preparation** C9352 Series

**Use of the preparation** Inkjet printing

**Manufacturer information** Hewlett-Packard Company  
1000 NE Circle Boulevard  
Corvallis, OR 97330-4239 US

**Hewlett-Packard health effects line**

**(Toll-free within the US)** 1-800-457-4209

**(Direct)** 1-503-494-7199

**General information telephone number**

**HP Customer Care Line** 1-800-474-6836

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**(Direct)** 1-208-323-2551

**Date prepared** Jan 24, 2007

**MSDS number** 147340

## 2. COMPOSITION / INFORMATION ON INGREDIENTS

Component/Substance	CAS Number	% By Weight
<b>Cyan ink</b>		
Water	7732-18-5	> 60
1,5-pentanediol	111-29-5	< 10
Ethyl alkylidol	Proprietary	< 7.5
2-pyrrolidone	616-45-5	< 7.5
Metal nitrate # 2	Proprietary	< 7.5
Alkylidol ethoxylate	Proprietary	< 2.5
Substituted phthalocyanine salt # 2	Proprietary	< 2.5
Ammonium nitrate	6484-52-2	< 2.5
<b>Magenta ink</b>		
Water	7732-18-5	> 60
1,5-pentanediol	111-29-5	< 10
Ethyl alkylidol	Proprietary	< 7.5
2-pyrrolidone	616-45-5	< 7.5
Metal nitrate # 2	Proprietary	< 7.5
Alkylidol ethoxylate	Proprietary	< 2.5
Amino alkylidol	Proprietary	< 2.5
Ammonium nitrate	6484-52-2	< 2.5
<b>Yellow ink</b>		
Water	7732-18-5	> 60
1,5-pentanediol	111-29-5	< 10
Ethyl alkylidol	Proprietary	< 7.5
2-pyrrolidone	616-45-5	< 7.5
Metal nitrate # 2	Proprietary	< 7.5
Alkylidol ethoxylate	Proprietary	< 2.5
Ammonium nitrate	6484-52-2	< 2.5

**Composition comments** This ink supply contains an aqueous ink formulation. This product has been evaluated using criteria specified in 29 CFR 1910.1200 (Hazard Communication Standard).

## 3. HAZARDS IDENTIFICATION

**Emergency overview** Contact with skin and eyes may result in irritation.



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## Acute health effects

Any potential hazards are presumed to be due to exposure to the components.

### Skin contact

*1,5-pentanediol*  
Contact with skin may result in irritation.

*2-pyrrolidone*  
Contact with skin may result in irritation.

*Alkyldiol ethoxylate*  
Contact with skin may result in severe irritation.

*Amino alkyldiol*  
Contact with skin may result in irritation.

*Ammonium nitrate*  
Contact with skin may result in irritation.

*Ethyl alkyldiol*  
Contact with skin may result in mild irritation.

*Metal nitrate # 2*  
Contact with skin may result in irritation.

### Eye contact

*1,5-pentanediol*  
Contact with eyes may result in irritation.

*2-pyrrolidone*  
Contact with eyes may result in irritation.

*Alkyldiol ethoxylate*  
Contact can cause moderate to severe irritation and possible injury to the eyes.

*Amino alkyldiol*  
Contact with eyes may result in irritation.

*Ammonium nitrate*  
Contact with eyes may result in irritation.

*Ethyl alkyldiol*  
Contact with eyes may result in mild irritation.

*Metal nitrate # 2*  
Contact with eyes may result in irritation.

### Inhalation

*2-pyrrolidone*  
Inhalation may result in respiratory irritation.

*Amino alkyldiol*  
Inhalation may result in respiratory irritation.

*Ammonium nitrate*  
Inhalation may result in respiratory irritation.

*Metal nitrate # 2*  
Inhalation may result in respiratory irritation.

### Ingestion

*2-pyrrolidone*  
Ingestion may result in nausea, vomiting and diarrhea.

*Alkyldiol ethoxylate*  
Ingestion may cause irritation of mouth, throat, nausea, vomiting and diarrhea.

*Ammonium nitrate*  
Contains nitrate salts, may cause methemoglobinemia.

*Metal nitrate # 2*  
Contains nitrate salts, may cause methemoglobinemia.

*Substituted phthalocyanine salt # 2*  
Harmful if swallowed.



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## Potential health effects

### Routes of exposure

Potential routes of overexposure to this product are skin and eye contact

Inhalation of vapor and ingestion are not expected to be significant routes of exposure for this product under normal use conditions.

Complete toxicity data are not available for this specific formulation

### Chronic health effects

Cyan ink:  
Substituted phthalocyanine salt: Prolonged ingestion exposure may cause serious damage to health.

### Carcinogenicity

None of the components present in this formulation at concentrations equal to or greater than 0.1% are listed by EU, MAK, IARC, NTP or OSHA.

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## 4. FIRST AID MEASURES

### First aid procedures

#### Skin

Wash affected areas thoroughly with mild soap and water. If irritation persists get medical attention.

#### Eye

Do not rub eyes. Immediately flush with large amounts of clean, warm water (low pressure) for at least 15 minutes or until particles are removed. If irritation persists get medical attention.

#### Inhalation

Move to fresh air. If symptoms persist, get medical attention.

#### Ingestion

If ingestion of a large amount does occur, seek medical attention.

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## 5. FIRE FIGHTING MEASURES

### Flash point and method

> 200 °F; Pensky-Martens Closed Cup

### Hazardous combustion products

Refer to section 10.

### Extinguishing media

CO<sub>2</sub>, water, dry chemical, or foam

### Unsuitable extinguishing media

None known.

### Unusual fire and explosion hazard

None known.

### Special firefighting procedures

None established.

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## 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions

Wear appropriate personal protective equipment.

### Environmental precautions

Do not let product enter drains. Do not flush into surface water or sanitary sewer system.

### Procedures if material is released or spilled

Soak up with inert absorbent material. Slowly vacuum or sweep the material into a bag or other sealed container. Dispose of in compliance with federal, state, and local regulations. See also section 13 Disposal considerations.

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## 7. HANDLING AND STORAGE

### Handling

Avoid contact with skin, eyes and clothing.

### Storage

Keep out of the reach of children. Keep away from excessive heat or cold.

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## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Exposure limit values

Exposure limits have not been established for this product.

### Personal protective equipment

#### General

Use personal protective equipment to minimize exposure to skin and eye.

#### Hygiene measures

Handle in accordance with good industrial hygiene and safety practice.



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Exposure guidelines

Use in a well ventilated area.

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## 9. PHYSICAL & CHEMICAL PROPERTIES

pH	6.5 - 8.75
Vapor pressure	Not determined
Boiling point	Not determined
Solubility	Soluble in water
Specific gravity	1 - 1.2
VOC content	< 3 %
Flash point	> 200 °F
Viscosity	> 2 cp
Vapor density	> 1 (air = 1.0)
Evaporation rate	Not determined
Flammability	Not determined
Oxidizing properties	Not determined.
Color	Cyan, magenta, yellow

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## 10. CHEMICAL STABILITY & REACTIVITY INFORMATION

Stability	Stable under recommended storage conditions.
Hazardous polymerization	Will not occur.
Hazardous decomposition products	Upon decomposition, this product may yield gaseous nitrogen oxides, carbon monoxide, carbon dioxide and/or low molecular weight hydrocarbons.
Incompatibility	Incompatible with strong bases and oxidizing agents.

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## 11. TOXICOLOGICAL INFORMATION

This ink formulation has not been tested for toxicological effects.  
Refer to Section 3 for potential health effects and Section 4 for first aid measures.

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## 12. ECOLOGICAL INFORMATION

### Aquatic toxicity

*Cyan ink*  
LC50/96h/Fathead minnows =< 400 mg/L  
Static acute toxicity (trout), survival (100 mg/L) = 100%  
Static acute toxicity (trout), survival (10 mg/L) = 100%

*Magenta ink*  
LC50/96h/Fathead minnows =< 400 mg/L  
Static acute toxicity (trout), survival (100 mg/L) = 100%  
Static acute toxicity (trout), survival (10 mg/L) = 100%

*Yellow ink*  
LC50/96h/Fathead minnows =< 400 mg/L  
Static acute toxicity (trout), survival (100 mg/L) = 100%  
Static acute toxicity (trout), survival (10 mg/L) = 100%

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## 13. DISPOSAL CONSIDERATIONS

### Disposal instructions

Dispose of in compliance with federal, state, and local regulations.  
HP's Planet Partners (trademark) supplies recycling program enables simple, convenient recycling of HP original inkjet and LaserJet supplies. For more information and to determine if this service is available in your location, please visit <http://www.hp.com/recycle>.



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## 14. TRANSPORTATION INFORMATION

**General** Not a regulated article under United States DOT, IATA, ADR, IMDG, or RID.

### IATA

<b>Proper shipping name</b>	Not applicable
<b>Hazard class</b>	Not applicable
<b>Special precautions</b>	None
<b>Packaging exceptions</b>	None
<b>Identification number (UN)</b>	None
<b>Packing group</b>	N/A

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## 15. REGULATORY INFORMATION

**International regulations** All chemical substances in this HP product have been notified or are exempt from notification under chemical substances notification laws in the following countries: US (TSCA), EU (EINECS/ELINCS), Switzerland, Canada (DSL/NDSL), Australia, Japan, Philippines, South Korea, New Zealand, and China.

**US federal regulations** US TSCA 12(b): Does not contain listed chemicals.

**HMIS ratings**

Health:	1
Flammability:	1
Physical hazard:	0

**NFPA ratings**

Health:	1
Flammability:	1
Instability:	0

### Superfund Amendments and Reauthorization Act of 1986 (SARA)

**Section 302 extremely hazardous substance** No

**Section 311 hazardous chemical** No

**Hazard categories**

- Immediate Hazard - No
- Delayed Hazard - No
- Fire Hazard - No
- Pressure Hazard - No
- Reactivity Hazard - No

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## 16. OTHER INFORMATION

**Other information** This MSDS was prepared in accordance with USA OSHA Hazard Communications regulation (29 CFR 1910.1200).

**Issue date** Jan 24 2007 9:11AM

**Revision** 4

**Replaces sheet dated** Feb 7 2006 12:10PM

**Disclaimer** This Safety Data Sheet document is provided without charge to customers of Hewlett-Packard Company. Data is the most current known to Hewlett-Packard Company at the time of preparation of this document and is believed to be accurate. It should not be construed as guaranteeing specific properties of the products as described or suitability for a particular application. This document was prepared to the requirements of the jurisdiction specified in Section 1 above and may not meet regulatory requirements in other countries.

**MSDS sections updated** 15. Regulatory Information: US federal regulations



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## Explanation of abbreviations

<b>ACGIH</b>	American Conference of Governmental Industrial Hygienists
<b>CAS</b>	Chemical Abstracts Service
<b>CERCLA</b>	Comprehensive Environmental Response Compensation and Liability Act
<b>CFR</b>	Code of Federal Regulations
<b>COC</b>	Cleveland Open Cup
<b>DOT</b>	Department of Transportation
<b>EPCRA</b>	Emergency Planning and Community Right-to-Know Act (aka SARA)
<b>IARC</b>	International Agency for Research on Cancer
<b>NIOSH</b>	National Institute for Occupational Safety and Health
<b>NTP</b>	National Toxicology Program
<b>OSHA</b>	Occupational Safety and Health Administration
<b>PEL</b>	Permissible Exposure Limit
<b>RCRA</b>	Resource Conservation and Recovery Act
<b>REC</b>	Recommended
<b>REL</b>	Recommended Exposure Limit
<b>SARA</b>	Superfund Amendments and Reauthorization Act of 1986
<b>STEL</b>	Short-Term Exposure Limit
<b>TCLP</b>	Toxicity Characteristics Leaching Procedure
<b>TLV</b>	Threshold Limit Value
<b>TSCA</b>	Toxic Substances Control Act
<b>VOC</b>	Volatile Organic Compounds