



# MATERIAL SAFETY DATA SHEET

## 1. Chemical Product and Company Identification

**Material name** C6578 Series  
**Use of the preparation** Inkjet printing  
**Version #** 09  
**Revision date** 10-Apr-2008  
**CAS #** Mixture  
**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  
**(Toll-free)** 1-800-474-6836  
**(Direct)** 1-208-323-2551

**Date prepared** Apr 09, 2008

**MSDS number** 266207

## 2. Hazards Identification

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

**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.



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## 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.

## 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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## 3. 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 alkyl diol	Proprietary	< 7.5
2-pyrrolidone	616-45-5	< 7.5
Metal nitrate # 2	Proprietary	< 7.5
Alkyl diol 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 alkyl diol	Proprietary	< 7.5
2-pyrrolidone	616-45-5	< 7.5
Metal nitrate # 2	Proprietary	< 7.5
Alkyl diol ethoxylate	Proprietary	< 2.5
Amino alkyl diol	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 alkyl diol	Proprietary	< 7.5
2-pyrrolidone	616-45-5	< 7.5
Metal nitrate # 2	Proprietary	< 7.5
Alkyl diol 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).

## 4. First Aid Measures

### First aid procedures

<b>Eye contact</b>	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.
<b>Skin contact</b>	Wash affected areas thoroughly with mild soap and water. If irritation persists get medical attention.
<b>Inhalation</b>	Move to fresh air. If symptoms persist, get medical attention.
<b>Ingestion</b>	If ingestion of a large amount does occur, seek medical attention.

## 5. Fire Fighting Measures

<b>Flash point and method</b>	> 200 °F (> 93.3 °C); Pensky-Martens Closed Cup
<b>Hazardous combustion products</b>	Refer to section 10.
<b>Flammable properties</b>	None known.
<b>Extinguishing media</b>	
<b>Suitable extinguishing media</b>	CO <sub>2</sub> , water, dry chemical, or foam



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<b>Unsuitable extinguishing media</b>	None known.
<b>Unusual fire and explosion hazard</b>	None known.
<b>Special firefighting procedures</b>	None established.

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## 6. Accidental Release Measures

<b>Personal precautions</b>	Wear appropriate personal protective equipment.
<b>Environmental precautions</b>	Do not let product enter drains. Do not flush into surface water or sanitary sewer system.
<b>Other information</b>	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

<b>Handling</b>	Avoid contact with skin, eyes and clothing.
<b>Storage</b>	Keep out of the reach of children. Keep away from excessive heat or cold.

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## 8. Exposure Controls/Personal Protection

<b>Exposure guidelines</b>	Exposure limits have not been established for this product.
<b>Personal protective equipment</b>	
<b>General</b>	Use personal protective equipment to minimize exposure to skin and eye.
<b>General hygiene considerations</b>	Handle in accordance with good industrial hygiene and safety practice.

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## 9. Physical & Chemical Properties

<b>Appearance</b>	Not Available
<b>Color</b>	Cyan, magenta, yellow
<b>Odor</b>	Not Available
<b>Odor threshold</b>	Not available
<b>Physical state</b>	Liquid.
<b>Form</b>	Not Available
<b>pH</b>	6.5 - 8.75
<b>Melting point</b>	Not available
<b>Freezing point</b>	Not available
<b>Boiling point</b>	Not determined
<b>Flash point</b>	> 200 °F (> 93.3 °C); Pensky-Martens Closed Cup
<b>Evaporation rate</b>	Not determined
<b>Flammability</b>	Not available.
<b>Flammability limits in air, upper, % by volume</b>	Not available
<b>Flammability limits in air, lower, % by volume</b>	Not determined
<b>Vapor pressure</b>	Not determined



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<b>Vapor density</b>	> 1 (air = 1.0)
<b>Specific gravity</b>	1 - 1.2
<b>Relative density</b>	Not available
<b>Solubility in water</b>	Soluble in water
<b>Partition coefficient (n-octanol/water)</b>	Not available
<b>Auto-ignition temperature</b>	Not available
<b>Decomposition temperature</b>	Not available
<b>VOC</b>	< 3 %
<b>Viscosity</b>	> 2 cp

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## 10. Chemical Stability & Reactivity Information

<b>Chemical stability</b>	Stable under recommended storage conditions.
<b>Incompatible materials</b>	Incompatible with strong bases and oxidizing agents.
<b>Hazardous decomposition products</b>	Upon decomposition, this product may yield gaseous nitrogen oxides, carbon monoxide, carbon dioxide and/or low molecular weight hydrocarbons.
<b>Possibility of hazardous reactions</b>	Will not occur.

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## 11. Toxicological Information

<b>Toxicological information</b>	Refer to Section 3 for potential health effects and Section 4 for first aid measures. <i>Cyan ink</i> Refer to Section 3 for potential health effects and Section 4 for first aid measures. <i>Magenta ink</i> Refer to Section 3 for potential health effects and Section 4 for first aid measures. <i>Yellow ink</i> Refer to Section 3 for potential health effects and Section 4 for first aid measures.
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## 12. Ecological Information

<b>Aquatic toxicity</b>	<i>Cyan ink</i> 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% <i>Magenta ink</i> 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% <i>Yellow ink</i> 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%
<b>Persistence and degradability</b>	Not available



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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>.

## 14. Transportation Information

### Department of Transportation (DOT) Requirements

Not regulated as hazardous goods.

### IATA

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

## 15. Regulatory Information

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

### CERCLA (Superfund) reportable quantity

None

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

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

**Section 302 extremely hazardous substance** No

**Section 311 hazardous chemical** No

**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.

### State regulations

U.S. - Pennsylvania - RTK (Right to Know) List		
Metal nitrate # 2	Proprietary	Present
U.S. - New Jersey - Right to Know Hazardous Substance List		
Metal nitrate # 2	Proprietary	sn 1143

## 16. Other Information

<b>HMIS® ratings</b>	Health: 1 Flammability: 1 Physical hazard: 0
<b>NFPA ratings</b>	Health: 1 Flammability: 1 Instability: 0
<b>Issue date</b>	Apr 9 2008 4:56PM



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**Revision** 9

**Replaces sheet dated** Apr 7 2008 10:54AM

**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.

## 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