

#### **1. Chemical Product and Company Identification**

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Material name	CC656A
Use of the preparation	Inkjet printing
Version #	03
Revision date	20-Jun-2008
Manufacturer information	Hewlett-Packard Company 1000 NE Circle Boulevard Corvallis, OR 97330-4239 US
Hewlett-Packard health effect	ts line
(Toll-free within the US) (Direct)	1-800-457-4209 1-503-494-7199
General information telephor	ne number
HP Customer Care Line (Toll-free) (Direct)	1-800-474-6836 1-800-474-6836 1-208-323-2551
Date prepared	Jun 19, 2008
MSDS number	294312
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	
	<i>1-(2-hydroxyethyl)-2-pyrrolidone</i> Contact with skin may result in irritation.
	<i>1,5-pentanediol</i> Contact with skin may result in irritation.
	<i>Aliphatic diol</i> Contact with skin may result in irritation.
	<i>Ethyl alkyldiol</i> Contact with skin may result in mild irritation.
	<i>Metal nitrate # 2</i> Contact with skin may result in irritation.
	<i>Pyridine azo dye</i> May cause sensitization by skin contact.
	Substituted naphthalenesulfonate salt # 13 Contact with skin may result in irritation.



Eye contact	
	<i>1-(2-hydroxyethyl)-2-pyrrolidone</i> Contact with eyes may result in irritation.
	<i>1,5-pentanediol</i> Contact with eyes may result in irritation. <i>Aliphatic diol</i> Contact with eyes may result in irritation.
	<i>Ethyl alkyldiol</i> Contact with eyes may result in mild irritation.
	<i>Metal nitrate # 2</i> Contact with eyes may result in irritation.
	<i>Pyridine azo dye</i> Contact with eyes may result in irritation.
	Substituted naphthalenesulfonate salt # 13 Contact with eyes may result in irritation.
	<i>Substituted phthalocyanine salt #5</i> Risk of serious damage to eyes.
Inhalation	
	<i>1-(2-hydroxyethyl)-2-pyrrolidone</i> Inhalation may result in respiratory irritation.
	Aliphatic diol Inhalation may result in respiratory irritation.
	<i>Metal nitrate # 2</i> Inhalation may result in respiratory irritation.
	<i>Substituted naphthalenesulfonate salt # 13</i> Inhalation may result in respiratory irritation.
Ingestion	
	<i>1-(2-hydroxyethyl)-2-pyrrolidone</i> Ingestion may result in nausea, vomiting and diarrhea.
	<i>Metal nitrate # 2</i> Contains nitrate salts, may cause methemoglobinemia.
ential 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	None known.
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 Cyan ink Water 7732-18-5 > 60 Ethyl alkyldiol Proprietary < 10 111-29-5 < 7.5 1,5-pentanediol 1-(2-hydroxyethyl)-2-pyrrolidone 3445-11-2 < 5 Substituted phthalocyanine salt #5 Proprietary < 5 Metal nitrate # 2 Proprietary < 5 Aliphatic diol 629-11-8 < 5 Phenylenediamine derivative Proprietary < 2.5 **Yellow ink** Water 7732-18-5 > 60 1,5-pentanediol 111-29-5 < 15 Aliphatic diol Proprietary < 15 Substituted naphthalenesulfonate salt # 13 Proprietary < 7.5 Metal nitrate # 2 Proprietary < 5 Magenta ink > 70 Water 7732-18-5 Proprietary Aliphatic diol < 15 1,5-pentanediol 111-29-5 < 7.5 Pyridine azo dye Proprietary < 5 Nitric Acid, Magnesium Salt, Hexahydrate Proprietary < 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 Eye contact 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. Skin contact Wash affected areas thoroughly with mild soap and water. If irritation persists get medical

attention.InhalationMove to fresh air. If symptoms persist, get medical attention.IngestionIf ingestion of a large amount does occur, seek medical attention.

#### 5. Fire Fighting Measures

Flash point and method	> 200 °F (> 93.3 °C); Pensky-Martens Closed Cup
Hazardous combustion products	Refer to section 10.
Flammable properties	None known.
Extinguishing media	
Suitable extinguishing media	CO2, water, dry chemical, or foam
Unsuitable extinguishing media	None known.
Unusual fire and explosion hazard	None known.



Special firefighting	None established.
procedures	

#### 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.
Other information	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.

### 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.

#### 8. Exposure Controls/Personal Protection

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

#### 9. Physical & Chemical Properties

Color	Cyan, magenta, yellow
Odor threshold	Not available
Physical state	Liquid.
Form	
рН	7.2 - 7.4
Melting point	Not available
Freezing point	Not available
Boiling point	Not determined
Flash point	> 200 °F (> 93.3 °C); Pensky-Martens Closed Cup
Evaporation rate	Not determined
Flammability	Not available.
Flammability limits in air, upper, % by volume	Not available
Flammability limits in air, lower, % by volume	Not determined
Vapor pressure	Not determined
Vapor density	> 1 (air = 1.0)
Specific gravity	1 - 1.2
Relative density	Not available
Solubility in water	Soluble in water
Partition coefficient (n-octanol/water)	Not available



Auto-ignition temperature	Not available
Decomposition temperature	Not available
VOC	< 3 %
Viscosity	> 2 cp

#### **10.** Chemical Stability & Reactivity Information

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

#### **11.** Toxicological Information

**Toxicological information** Refer to Section 3 for potential health effects and Section 4 for first aid measures.

#### **12. Ecological Information**

**Aquatic toxicity** 

Persistence and degradability I.3. Disposal Considerations Disposal instructions	Not available Dispose of in compliance with federal, state, and local regulations.
	Yellow ink LC50/96h/Fathead minnows =434 mg/L Static acute toxicity (trout), survival (100 mg/L) = 100% Static acute toxicity (trout), survival (10 mg/L) = 100%
	<i>Cyan ink</i> LC50/96h/Fathead minnows =463 mg/L Static acute toxicity (trout), survival (100 mg/L) = 100% Static acute toxicity (trout), survival (10 mg/L) = 100%

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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.

#### ΙΑΤΑ

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

### **15. Regulatory Information**

**US federal regulations** 

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





#### **CERCLA (Superfund) reportable quantity**

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

Superfund Amendments and Re	eautionzation Act o	1 1960 (SARA)	
Hazard categories	Immediate Hazard - N 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	under chemical substa	es in this HP product have been notified or are exempt from notification ances notification laws in the following countries: US (TSCA), EU itzerland, Canada (DSL/NDSL), Australia, Japan, Philippines, South Korea, ina.	
State regulations			
U.S Pennsylvania - RTK (Right to Metal nitrate # 2	Know) List Proprietary	[present]	
U.S Pennsylvania - RTK (Right to Nitric Acid, Magnesium Salt, Hexahydrate	Know) List Proprietary	[present]	
U.S New Jersey - Right to Know H Metal nitrate # 2	Hazardous Substance L Proprietary	ist sn 1136	
U.S New Jersey - Right to Know H Nitric Acid, Magnesium Salt, Hexahydrate	Hazardous Substance L Proprietary	ist sn 1136	
. Other Information			
HMIS® ratings	Health: 1 Flammability: 1 Physical hazard: 0		
NFPA ratings	Health: 1 Flammability: 1 Instability: 0		
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Revision3Replaces sheet datedJun 19 2008 5:05PM

Disclaimer

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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**

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