

1. Product and Compared	ny Identification
Identification of the preparation	C9401 Series
Product use	Inkjet printing
Version #	07
Revision date	11-Jan-2011
CAS #	Mixture
Company identification	Hewlett-Packard Company 3000 Hanover Street Palo Alto, CA 94304-1185 United States Telephone 650-857-1501
	Hewlett-Packard health effects line (Toll-free within the US) 1-800-457-4209 (Direct) 1-503-494-7199 HP Customer Care Line (Toll-free within the US) 1-800-474-6836 (Direct) 1-208-323-2551 Email: hpcustomer.inquiries@hp.com
2. Hazards Identificati	on
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-(2-hydroxyethyl)-2-pyrrolidone Contact with skin may result in irritation.
	<i>2-pyrrolidone</i> Contact with skin may result in irritation. <i>Aliphatic diol</i> Contact with skin may result in irritation.
Eye contact	1-(2-hydroxyethyl)-2-pyrrolidone Contact with eyes may result in irritation.
	<i>2-pyrrolidone</i> Contact with eyes may result in irritation. <i>Aliphatic diol</i> Contact with eyes may result in irritation.
Inhalation	1-(2-hydroxyethyl)-2-pyrrolidone Inhalation may result in respiratory irritation.
	2-pyrrolidone Inhalation may result in respiratory irritation.
	Aliphatic diol Inhalation may result in respiratory irritation.
Ingestion	<i>1-(2-hydroxyethyl)-2-pyrrolidone</i> Ingestion may result in nausea, vomiting and diarrhea. <i>2-pyrrolidone</i> Ingestion may result in nausea, vomiting and diarrhea.

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	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.

# 3. Composition / Information on Ingredients

Components		CAS #	Percent
Water		7732-18-5	70 - 80
1-(2-hydroxyethyl)-2-pyrrolidone		3445-11-2	7.5 - 10
Aliphatic diol		Proprietary	7.5 - 10
2-pyrrolidone		616-45-5	2.5 - 5
Composition comments	This ink supply contains an aqueous ink form This product has been evaluated using criteria Communication Standard).		1200 (Hazard
4. First Aid Measures			
First aid procedures			
Eye contact	Do not rub eyes. Immediately flush with large least 15 minutes or until particles are remove		
Skin contact	Wash affected areas thoroughly with mild soa develops or persists.	p and water. Get medical a	ttention if irritation
Inhalation	Remove to fresh air. If symptoms persist, get	medical attention.	
Ingestion	If ingestion of a large amount does occur, see	ek medical attention.	
5. Fire Fighting Measures	5		
Flammable properties	None known.		
Extinguishing media			
Suitable extinguishing media	CO2, water, dry chemical, or foam		
Unsuitable extinguishing media	None known.		
Specific methods	None established.		
Hazardous combustion products	Refer to section 10.		
6. Accidental Release Me	asures		
Personal precautions	Wear appropriate personal protective equipme	ent.	
Environmental precautions	Do not let product enter drains. Do not flush i		ry sewer system.
Methods for containment	Dike the spilled material, where this is possibl or diatomaceous earth, commercial sorbents,	e. Absorb with inert absorb	• •
Methods for cleaning up	Soak up with inert absorbent material.		
Other information	Soak up with inert absorbent material. Slowly sealed container. Dispose of in compliance wi section 13 Disposal considerations.		
7. Handling and Storage			
Handling	Avoid contact with skin, eyes and clothing.		
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### 8. Exposure Controls / Personal Protection

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

### 9. Physical & Chemical Properties

9. Filysical & Chemical Fi	loper des
Appearance	Not available.
Color	Grey.
Odor	Not available.
Odor threshold	Not available.
Physical state	Liquid
Form	Not available.
pH	7.5 - 8.5
Melting point	Not determined
Freezing point	Not available.
Boiling point	Not determined
Flash point	200 °F (93.3 °C) Setaflash Closed Tester
Evaporation rate	Not determined
Flammability limits in air, upper, % by volume	Not available.
Flammability limits in air, lower, % by volume	Not determined
Vapor pressure	Not available.
Vapor density	Not available.
Specific gravity	1 - 1.2
Relative density	Not available.
Solubility (water)	Soluble in water
Auto-ignition temperature	Not determined
Decomposition temperature	Not available.
VOC	< 266 g/l
Other information	VOC content (less water, less exempt compounds) = $< 1419$ g/L (U.S. requirement, not for emissions)

# 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**

Serious eye damage/eye irritation	Not available.
Skin sensitization	Not available.
Further information	This ink formulation has not been tested for toxicological effects. Refer to Section 2 for potential health effects and Section 4 for first aid measures.

## **12. Ecological Information**

Aquatic toxicity	LC50/96h/Fathead minnows => 750 mg/L
Persistence and degradability	Not available.

### 13. Disposal Considerations

<b>Disposal</b> i	instructions
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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. Transport Information

Further information

Not a dangerous good under United States DOT, IATA, ADR, IMDG, or RID.

#### DOT

Not regulated as dangerous goods.

#### IATA

Not regulated as dangerous goods.

#### IMDG

Not regulated as dangerous goods.

#### RID

Not regulated as dangerous goods.

Not regulated as dangerous good	IS.
15. Regulatory Informa	tion
US federal regulations	US TSCA 12(b): Does not contain listed chemicals.
CERCLA (Superfund) reportal	ble quantity
None	
<b>Occupational Safety and Hea</b>	Ith Administration (OSHA)
29 CFR 1910.1200 hazardous chemical	No
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
State regulations	
US - Pennsylvania RTK -	Hazardous Substances: Listed substance
2-pyrrolidone (CAS 616-	-45-5) Listed.
Regulatory information	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.
16. Other Information	
Other information	This MSDS was prepared in accordance with USA OSHA Hazard Communications regulation (29 CFR 1910.1200).
HMIS® ratings	Health: 1 Flammability: 1 Physical hazard: 0
NFPA ratings	Health: 1 Flammability: 1 Instability: 0
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.

#### 11-Jan-2011

Issue date Manufacturer information

Hewlett-Packard Company 1000 NE Circle Boulevard Corvallis, OR 97330-4239 US (Direct) 1-503-494-7199 (Toll-free within the US) 1-800-457-4209

### **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