C9460Series[C]-MSDS\_US-English-06.pdf

C9460Series[MB]-MSDS\_US-English-10.pdf



1. Product and Compan	y Identification	
Identification of the preparation	C9460Series[C]	
Product use	Inkjet printing	
Version #	04	
Revision date	24-Feb-2011	
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 Identificatio		
Emergency overview	Contact with skin and eyes may result in irritation. Ingestion may result in nausea, vomiting and diarrhea. May cause sensitization of susceptible persons.	
Acute health effects		
	Any potential hazards are presumed to be due to exposure to the components.	
Skin contact	<i>2-pyrrolidone</i> Contact with skin may result in irritation. <i>Alkyldiol</i>	
	Contact with skin may result in irritation. <i>Polymer 683-K salt</i> Contact with skin may result in irritation.	
Eye contact	<i>2-pyrrolidone</i> Contact with eyes may result in irritation. <i>Alkyldiol</i> Contact with eyes may result in irritation.	
	<i>Polymer 683-K salt</i> Contact with eyes may result in irritation.	
Inhalation	<i>2-pyrrolidone</i> Inhalation may result in respiratory irritation. <i>Alkyldiol</i> Inhalation may result in respiratory irritation.	
Ingestion	2-pyrrolidone Ingestion may result in nausea, vomiting and diarrhea. Diethylene glycol Harmful if swallowed. May cause kidney and liver damage. May depress the central nervous system. Polymer 683-K salt	
	Swallowing large amounts may cause digestive discomfort. 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.
2 Composition / Informati	en en Travadiante

#### 3. Composition / Information on Ingredients Components CAS # Percent 70 - 80 Water 7732-18-5 2-pyrrolidone 616-45-5 5 - 7.5 Diethylene glycol 5 - 7.5 111-46-6 Alkyldiol Proprietary 2.5 - 5 Triethanolamine 102-71-6 < 1.5 Polymer 683-K salt < 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	
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.
Inhalation	Move to fresh air. If symptoms persist, get medical attention.
Ingestion	If material is ingested, immediately contact a physician or poison control center.

### 5. Fire Fighting Measures

Combustion generates toxic fumes of fluoride/fluorine compounds; aldehydes, ketones, acetylene.
CO2, water, dry chemical, or foam
None known.
None established.
Refer to section 10.

### 6. Accidental Release Measures

Personal precautions	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.
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. Store away from strong oxidizers.

ACGIH			
Components		Туре	Value
Triethanolamine (102-71-6)		TWA	5.0000 mg/m3
U.S WEEL Components		Туре	Value
Diethylene glycol (111-46-6)		TWA	10.0000 mg/m3
	Fundational line iter ite		for this and et
Exposure guidelines Engineering controls	Use in a well vent	ave not been established	for this product.
Personal protective equipment General hygiene considerations		ance with good industrial	hygiene and safety practice.
General	Use personal prot	ective equipment to mini	imize exposure to skin and eye.
9. Physical & Chemical P			
Appearance	• Not available.		
Color	Cyan		
Odor	Not available.		
Odor threshold	Not available.		
Physical state	Liquid		
Form	Not available.		
эΗ	9.4		
Melting point	Not available.		
Freezing point	Not available.		
Boiling point	Not determined		
Flash point	> 200 °F (> 93.3	°C) Pensky-Martens Clos	sed Cup
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 determined		
Vapor density	Not available.		
Specific gravity	1 - 1.1		
Relative density	Not available.		
Solubility (water)	Soluble in water		
Auto-ignition temperature	Not determined		
Decomposition temperature	Not available.		
voc	< 236 g/l		
Other information	VOC content (less emissions)		pounds) = < 913 g/L (U.S. requirement, not for compounds minus solids)

# Chemical stabilityStable under recommended storage conditions.Incompatible materialsIncompatible with strong bases and oxidizing agents.Hazardous decomposition<br/>productsUpon decomposition, this product may yield gaseous nitrogen oxides, carbon monoxide, carbon<br/>dioxide and/or low molecular weight hydrocarbons. hydrogen fluoride, fluorinated hydrocarbons,<br/>aldehydes, ketones

Possibility of hazardous reactions	Will not occur.		
11. Toxicological Informa	ation		
Serious eye damage/eye	Not available.		
irritation			
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	n		
Aquatic toxicity	LC50/96h/Fathead minnows =>750 mg/L		
Persistence and degradability	Not available.		
13. Disposal Consideration	ons		
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. Transport Informatio	n		
Further information DOT	Not a dangerous good under United States DOT, IATA, ADR, IMDG, or RID.		
Not regulated as dangerous goods.			
ΙΑΤΑ			
<b>Basic shipping requiremen</b>	ts:		
Proper shipping name	Not applicable		
Hazard class UN number	Not applicable none		
Packing group	N/A		
Additional information:			
Packaging exceptions	N/A		
IMDG			
Not regulated as dangerous goods. <b>RID</b>			
Not regulated as dangerous goods.			
15. Regulatory Informati	on		
US federal regulations	US TSCA 12(b): Does not contain listed chemicals.		
CERCLA (Superfund) reportabl None	e quantity		
Occupational Safety and Healt	h Administration (OSHA)		
29 CFR 1910.1200 hazardous chemical	Yes		
	eauthorization Act of 1986 (SARA)		
Hazard categories	Immediate Hazard - No Delayed Hazard - No Fire Hazard - Yes Pressure Hazard - No Reactivity Hazard - No		
Section 302 extremely hazardous substance	No		
Section 311 hazardous chemical	Yes		
State regulations			
-	azardous Substances: Listed substance		
2-pyrrolidone (CAS 616-4	•		
Diethylene glycol (CAS 11	1-46-6) Listed.		

**Regulatory information** All chemical substances in this product are notified or exempt from notification under chemical substance notification laws in the following countries: Australia, Canada, European Union, Japan, New Zealand, Switzerland, and USA..

<b>16. Other Information</b>	
Other information	This MSDS was prepared in accordance with USA OSHA Hazard Communications regulation (29 CFR 1910.1200).
HMIS® ratings	Health: 1 Flammability: 2 Physical hazard: 0
NFPA ratings	Health: 1 Flammability: 2 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.
Issue date	24-Feb-2011
This data sheet contains changes from the previous version in section(s):	9. Physical & Chemical Properties: Other information
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

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



1. Product and Company	<sup>7</sup> Identification		
Identification of the preparation	C9460Series[MB]		
Synonym(s)	Matte Black Ink		
Product use	Inkjet printing		
Version #	08		
Revision date	24-Feb-2011		
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 Identification	1		
Emergency overview	Contact with skin and eyes may result in irritation. Ingestion may result in nausea, vomiting and diarrhea.		
Acute health effects			
	Any potential hazards are presumed to be due to exposure to the components.		
Skin contact	<i>1,5-pentanediol</i> Contact with skin may result in irritation.		
	<i>2-pyrrolidone</i> Contact with skin may result in irritation. <i>Ethyl alkyldiol</i> Contact with skin may result in mild irritation.		
Eye contact	<i>1,5-pentanediol</i> Contact with eyes may result in irritation. <i>2-pyrrolidone</i> Contact with eyes may result in irritation. <i>Ethyl alkyldiol</i> Contact with eyes may result in mild irritation.		
Inhalation	<i>2-pyrrolidone</i> Inhalation may result in respiratory irritation.		
Ingestion	<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 / Inform Components	-	CAS #	Percent
Water		7732-18-5	70 - 80
2-pyrrolidone		616-45-5	10 - 15
1,5-pentanediol		111-29-5	1 - 2.5
Ethyl alkyldiol		Proprietary	1 - 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			
Eye contact	Do not rub eyes. Immediately flush with large least 15 minutes or until particles are removed the removed of th		
Skin contact	Wash affected areas thoroughly with mild soap and water. If irritation persists get medical attention.		
Inhalation	Move to fresh air. If symptoms persist, get i	medical attention.	
Ingestion	If ingestion of a large amount does occur, s	eek medical attention.	
5. Fire Fighting Measure	S		
Flammable properties	Combustion generates toxic fumes of fluoric	des/fluorine compounds.	
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 Mo	easures		
Personal precautions	Wear appropriate personal protective equip	ment.	
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 awa oxidizers.	ay from excessive heat or colo	d. Store away from strong
8. Exposure Controls / P	Personal Protection		
Exposure guidelines	Exposure limits have not been established for	or this product.	
Engineering controls	Use in a well ventilated area.		
Personal protective equipmer General hygiene considerations	t Handle in accordance with good industrial h	ygiene and safety practice.	
General	Use personal protective equipment to minim	nize exposure to skin and eye	
9. Physical & Chemical P	Properties		
Appearance	• Not available.		
Color	Black.		
Odor	Not available.		

Odor threshold	Not available.		
Physical state	Liquid		
Form	Not available.		
рН	9.2		
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 limits in air, upper, % by volume	Not available.		
Flammability limits in air, lower, % by volume	Not determined		
Vapor pressure	Not determined		
Vapor density	Not available.		
Specific gravity	1 - 1.1		
Relative density	Not available.		
Solubility (water)	Soluble in water		
Auto-ignition temperature	Not determined		
Decomposition temperature	Not available.		
VOC	< 240 g/l		
Other information	VOC content (less water, less exempt compounds) = $< 958 \text{ g/L}$ (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. hydrogen fluoride, fluorinated hydrocarbons		
Possibility of hazardous reactions	Will not occur.		
11. Toxicological Informa	ation		
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 Informatio	n		
Aquatic toxicity	LC50/96h/Fathead minnows => 750 mg/L		
Persistence and degradability	Not available.		
13. Disposal Consideration	ons de la constante de la const		
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. Transport Informatio	n		
Further information DOT Not regulated as dangerous goods IATA	Not a dangerous good under United States DOT, IATA, ADR, IMDG, or RID.		
Desis chinging and include	<b>h</b>		

### Basic shipping requirements:

Proper shipping name Not applicable

Hazard class	Not applicable	
UN number Packing group	None N/A	
Additional information:		
Packaging exceptions	None	
IMDG		
Not regulated as dangerous goods	i.	
RID		
Not regulated as dangerous goods	5.	
15. Regulatory Information		
CERCLA (Superfund) reportable	le quantity	
Occupational Safety and Health Administration (OSHA)		
29 CFR 1910.1200 hazardous chemical	No	
	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		
•	azardous Substances: Listed substance	
2-pyrrolidone (CAS 616-4	•	
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.	
Issue date	24-Feb-2011	
Manufacturer information	Hewlett-Packard Company 1000 NE Circle Boulevard	

### 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