

1. Product and Compar	ny Identification
Identification of the preparation	C9384Series[Y]
Product use	Inkjet printing
Version #	13
Revision date	31-Oct-2012
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 Identification	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	<i>1-(2-hydroxyethyl)-2-pyrrolidone</i> Contact with skin may result in irritation.
	<i>2-pyrrolidone</i> Contact with skin may result in irritation.
	Aliphatic diol Contact with skin may result in irritation. Substituted naphthalenesulfonate salt # 13 Contact with skin may result in irritation
Eye contact	Contact with skin may result in irritation. 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.
	Substituted naphthalenesulfonate salt # 13 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.
	Substituted naphthalenesulfonate salt # 13 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 CAS # Components Percent 1-(2-hydroxyethyl)-2-pyrrolidone 3445-11-2 < 10 2-pyrrolidone 616-45-5 < 5 Aliphatic diol < 10 Proprietary Substituted naphthalenesulfonate salt # 13 < 5 Proprietary > 70 Water 7732-18-5 **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 ingestion of a large amount does occur, seek medical attention.
General advice	No additional information
General advice 5. Fire Fighting Measu	
Elammable properties	None known

# 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 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.
Methods for containment	Dike the spilled material, where this is possible. Absorb with inert absorbent such as dry clay, sand or diatomaceous earth, commercial sorbents, or recover using pumps.
Methods for cleaning up	Soak up with inert absorbent material.

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.	
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 Pr	operties	
Appearance	Not available.	
Color	Yellow	
Odor	Not available.	
Odor threshold	Not available.	
Physical state	Liquid	
Form	Not available.	
рН	7.1 - 7.7	
Melting point	Not available.	
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 determined	
Vapor density	Not available.	
Specific gravity	1 - 1.2	
Relative density	Not available.	
Solubility (water)	Soluble in water	
Auto-ignition temperature	Not available.	
Decomposition temperature	Not available.	
Viscosity	> 2 cp	
VOC	< 245 g/L	
Other information	For other VOC regulatory data/information see section 15.	
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 Not available. irritation

12. Ecological Information	n	
Aquatic toxicity	LC50/96h/Fathead minnows => 750 mg/L	
Persistence and degradability	Not available.	
13. Disposal Consideration	ons	
Disposal instructions	Do not allow this material to drain into sewers/water supplies. Dispose of waste material according to Local, State, Federal, and Provincial Environmental 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	Not a dangerous good under DOT, IATA, ADR, IMDG, or RID.	
DOT		
Not regulated as dangerous goods.		
ΙΑΤΑ		
Not regulated as dangerous goods.		
IMDG		
Not regulated as dangerous goods.		
RID		
Not regulated as dangerous goods.		
15. Regulatory Informati		
US federal regulations	US TSCA 12(b): Does not contain listed chemicals.	
DEA Exempt Chemical Mixt		
Not regulated.		
Drug Enforcement Adminis	tration (DEA). List 1 & 2 Exempt Chemical Mixtures (21 CFR 1310.12(c))	
Not regulated. Drug Enforcement Adminis Chemical Code Number	tration (DEA). List 2, Essential Chemicals (21 CFR 1310.02(b) and 1310.04(f)(2) and	
	Notification (40 CFR 707, Subpt. D)	
Not regulated.		
CERCLA (Superfund) reportabl	e quantity	
None		
Occupational Safety and Healt		
29 CFR 1910.1200 hazardous chemical	No	
Superfund Amendments and R	eauthorization 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	Νο	
Section 311 hazardous chemical	Νο	
State regulations		
US. Massachusetts RTK - S	ubstance List	

US. Pennsvivania RTK - P	lazardous Substances
2-pyrrolidone (CAS 616-	
US. Rhode Island RTK	
Not regulated.	
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.
Other information	Specific Provisions: Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC (in the amended version OJ L 396 from 29.05.2007 page 3 with further rectifications and amendments). Exposure Limits (See Section 8): Executive regulation of Minister of Labour and Social Policy dated Nov. 29, 2002 concerning the highest exposure limits and volume of factors harmful for health and environment at work (Official Journal of Laws no 217/2002 item 1833 with further amendments). VOC content (less water, less exempt compounds) = < 950 g/L (U.S. requirement, not for emissions) VOC data based on formulation (Organic compounds minus solids)
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	31-Oct-2012
This data sheet contains changes from the previous version in section(s):	Product and Company Identification: Alternate Trade Names
Manufacturer information	Hewlett-Packard Company 3000 Hanover Street Palo Alto, California 94304-1112 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



1. Product and Company	Identification		
Identification of the preparation	C9384Series[MB]		
Synonym(s)	Matte Black Ink		
Product use	Inkjet printing		
Version #	12		
Revision date	30-Oct-2012		
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 Identificatior	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 th 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 tha 0.1% are listed by EU, MAK, IARC, NTP or OSHA.		

Components		CAS #	Percent
1,5-pentanediol		111-29-5	< 2.5
2-pyrrolidone		616-45-5	< 15
Ethyl alkyldiol		Proprietary	< 2.5
Water		7732-18-5	> 70
Composition comments	This ink supply contains an aqueous ink formula This product has been evaluated using criteria s Communication Standard).		1200 (Hazard
4. First Aid Measures			
First aid procedures			
Eye contact	Do not rub eyes. Immediately flush with large ar least 15 minutes or until particles are removed.		
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 medi	cal attention.	
Ingestion	If ingestion of a large amount does occur, seek i	medical attention.	
General advice	No additional information		
5. Fire Fighting Measures	3		
Flammable properties	Combustion generates toxic fumes of fluorides/fl	uorine 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 Me	asures		
Personal precautions	Wear appropriate personal protective equipment		
Environmental precautions	Do not let product enter drains. Do not flush into	o surface water or sanita	ary sewer system.
Methods for containment	Dike the spilled material, where this is possible. a or diatomaceous earth, commercial sorbents, or		pent such as dry clay, sand
Other information	Soak up with inert absorbent material. Slowly va sealed container. Dispose of in compliance with 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 fro oxidizers.	om excessive heat or col	d. Store away from strong
8. Exposure Controls / Po	ersonal Protection		
Exposure guidelines	Exposure limits have not been established for th	is product.	
Engineering controls	Use in a well ventilated area.		
Personal protective equipment			
General hygiene considerations	Handle in accordance with good industrial hygien	ne and safety practice.	
General	Use personal protective equipment to minimize e	exposure to skin and eve	2

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	For other VOC regulatory data/information see section 15.
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 Inform	ation
Serious eye damage/eye irritation	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	on
Aquatic toxicity	LC50/96h/Fathead minnows => 750 mg/L
Persistence and degradability	Not available.
13. Disposal Consideration	ons
Disposal instructions	Do not allow this material to drain into sewers/water supplies. Dispose of waste material according to Local, State, Federal, and Provincial Environmental 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	n
Further information DOT	Not a dangerous good under DOT, IATA, ADR, IMDG, or RID.
Not regulated as dangerous goods	

#### IATA

Not regulated as dangerous goods.

#### IMDG

Not regulated as dangerous goods.

#### RID

Not regulated as dangerous goods.

ion
US TSCA 12(b): Does not contain listed chemicals.
ctures Code Number
stration (DEA). List 1 & 2 Exempt Chemical Mixtures (21 CFR 1310.12(c))
stration (DEA). List 2, Essential Chemicals (21 CFR 1310.02(b) and 1310.04(f)(2) and
t Notification (40 CFR 707, Subpt. D)
le quantity
th Administration (OSHA)
No
Reauthorization Act of 1986 (SARA)
Immediate Hazard - No
Delayed Hazard - No
Fire Hazard - No
Pressure Hazard - No Reactivity Hazard - No
No
No
Substance List
45-5)
nd Community Right-to-Know Act
azardous Substances
45-5) Listed.
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,

Other information	Specific Provisions: Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC (in the amended version OJ L 396 from 29.05.2007 page 3 with further rectifications and amendments). Exposure Limits (See Section 8): Executive regulation of Minister of Labour and Social Policy dated Nov. 29, 2002 concerning the highest exposure limits and volume of factors harmful for health and environment at work (Official Journal of Laws no 217/2002 item 1833 with further amendments). VOC content (less water, less exempt compounds) = < 958 g/L (U.S. requirement, not for emissions) VOC data based on formulation (Organic compounds minus solids)

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	30-Oct-2012
This data sheet contains changes from the previous version in section(s):	Product and Company Identification: Alternate Trade Names
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	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