

MATERIAL SAFETY DATA SHEET

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1	. Chemical Product and Comp	
	Material name	C9386A
	Use of the preparation	Inkjet printing
	Version #	01
	Revision date	02-Nov-2007
	CAS #	Mixture
	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 telephone	e number
	HP Customer Care Line (Toll-free) (Direct)	1-800-474-6836 1-800-474-6836 1-208-323-2551
	Date prepared	Nov 02, 2007
	MSDS number	73982
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	provide to an exposure to the components.
		1-(2-hydroxyethyl)-2-pyrrolidone Contact with skin may result in irritation.
		2-pyrrolidone Contact with skin may result in irritation.
		Aliphatic diol Contact with skin may result in irritation.
	Eye contact	
		1-(2-hydroxyethyl)-2-pyrrolidone Contact with eyes may result in irritation.
		2-pyrrolidone Contact with eyes may result in irritation.
		Aliphatic diol Contact with eyes may result in irritation.
	Inhalation	
		<i>1-(2-hydroxyethyl)-2-pyrrolidone</i> Inhalation may result in respiratory irritation.
		2-pyrrolidone Inhalation may result in respiratory irritation.
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Aliphatic diol

Inhalation may result in respiratory irritation.

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Ingestion

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	1-(2-hydroxyethyl)-2-pyrrolidone Ingestion may result in nausea, vomiting and diarrhea. 2-pyrrolidone 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

Component/substance		CAS number	% by weight
Water Aliphatic diol		7732-18-5 Proprietary	> 70 < 10
1-(2-hydroxyethyl)-2-pyrrolidone 2-pyrrolidone	3445-11-2 616-45-5	< 10 < 7.5	
Substituted phthalocyanine salt #		Proprietary	< 5
Composition comments	This ink supply cont This product has be Communication Star	tains an aqueous ink f een evaluated using cr ndard),	formulation. iteria specified in 29 CFR 1910.1200 (Hazard
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. Wash affected areas thoroughly with mild soap and water. Get medical attention if irritation develops or persists.		
Skin contact			
Inhalation	Remove to fresh air.	. If symptoms persist,	, get medical attention.
Ingestion			, seek medical attention.
Fire Fighting Measures			
Flash point and method	< 200 °F (< 93.3 °C	C); Setaflash Closed Te	ester
Hazardous combustion products	Refer to section 10.		
Flammable properties	None known.		
Extinguishing media Suitable extinguishing media	Dry chemical, CO2, v	water spray or regular	r foam.
Unsuitable extinguishing media	None known.		
Unusual fire and explosion hazard	None known.		



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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.
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.
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.

internating and Scolage	
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	
General	Use personal protective equipment to minimize exposure to skin and eye.
	Handle in accordance with good industrial hygiene and safety practice.

9. Physical & Chemical Properties

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Color	Cyan			
Odor threshold	Not available			
Physical state	Not available			
pH	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	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			

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)	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

Not available

12. Ecological Information

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

3. 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

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

None





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Superfund Amendments and Reauthorization Act of 1986 (SARA)

	(SAKA)		
	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	
Int	International regulations All chemical substances in this HP product have been notified or are exem under chemical substances notification laws in the following countries: US (EINECS/ELINCS), Switzerland, Canada (DSL/NDSL), Australia, Japan, Phil Korea, New Zealand, and China.		
Sta	State regulations		
U.S.	Pennsylvania - RTK (Right to 2-pyrrolidone	616-45-5 Present	
16. Otl	her Information		
HM	IS® ratings	Health: 1 Flammability: 2 Physical hazard: 0	
NFF	PA ratings	Health: 1 Flammability: 2 Instability: 0	
Issu	ue date	Nov 2 2007 4:33PM	
Rev	vision	1	
Rep	laces sheet dated	May 8 2007 9:28AM	
Disc	claimer	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	

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.



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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