

1. Product and Company	Identification			
Identification of the preparation	CN057Series			
Product use	Inkjet printing			
Version #	01			
Revision date	04-Jan-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				
Emergency overview	Contact with skin and eyes may result in irritation. Do not breathe Vapor.			
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>Co-Solvent</i> Contact with skin may result in irritation.			
Eye contact	2-pyrrolidone Contact with eyes may result in irritation.			
	<i>Co-Solvent</i> Contact with eyes may result in irritation.			
Inhalation	Avoid breathing vapors or mists of this product. <i>2-pyrrolidone</i> Inhalation may result in respiratory irritation. <i>Co-Solvent</i>			
	Inhalation may result in respiratory irritation.			
Ingestion	<i>2-pyrrolidone</i> Ingestion may result in nausea, vomiting and diarrhea.			
	<i>Co-Solvent</i> Swallowing large amounts may cause digestive discomfort.			
Potential health effects				
Routes of exposure	Potential routes of exposure to this product are skin and eye contact, ingestion, and inhalation.			
	Complete toxicity data are not available for this specific formulation			
Chronic health effects	None known.			
Carcinogenicity	Carbon black is classified by the IARC as a Group 2B carcinogen (the substance is possibly carcinogenic to humans). Carbon black in this preparation, due to its bound form, does not present this carcinogenic risk. None of the other ingredients in this preparation are classified as carcinogens according to ACGIH, EU, IARC, MAK, NTP or OSHA.			

Components		CAS #	Percent
2-pyrrolidone		616-45-5	10 - 15
Co-Solvent		Proprietary	7.5 - 10
Carbon black		1333-86-4	2.5 - 5
Water		7732-18-5	> 70
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).		
	Carbon black is present only in a bound form in this preparation.		
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 a 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. Get medical attention if irritation develops or persists.		
Inhalation	Remove to fresh air. If symptoms persist, get medical attention.		
Ingestion	If ingestion of a large amount does occur, seek medical attention.		
5. Fire Fighting Measure	S		
Flammable properties	None known.		
Extinguishing media			
Suitable extinguishing media	For small (incipient) fires, use media such as foam, sand, dry chemical, or carbon dioxide. For large fires use very large (flooding) quantities of water and/or foam, applied as a mist or spray		
Unsuitable extinguishing media	None known.		
Specific methods	None established.		
Hazardous combustion products	Refer to section 10.		
6. Accidental Release Me	easures		
Personal precautions	Wear appropriate personal protective	ve 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, san or diatomaceous earth, commercial sorbents, or recover using pumps.		
Methods for cleaning up	Soak up with inert absorbent mater	ial.	
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 cl	othing.	
Storage	Keep out of the reach of children. Keep away from excessive heat or cold.		
8. Exposure Controls / P	ersonal Protection		
Occupational exposure limits ACGIH			
Components	Туре	Value	Form
Carbon black (1333-86-4)	TWA	3.0000 mg/m3	Inhalable fraction.

U.S Tennessee			
Components	Туре	Value	
Carbon black (1333-86-4)	TWA	3.5000 mg/m3	
Exposure guidelines	Exposure limits have not been estab	lished for this product.	
Engineering controls	Use in a well ventilated area.		
Personal protective equipmen	t		
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 P	roperties		
Appearance	Not available.		
Color	Black.		
Odor	Not available.		
Odor threshold	Not available.		
Physical state	Liquid		
Form	Not available.		
pH	7.5		
Melting point	Not available.		
Freezing point	Not available.		
Boiling point	Not available.		
Flash point	> 230 °F (> 110 °C) Pensky-Marten	ns Closed Cup	
Evaporation rate	Not available.	•	
Flammability limits in air, upper, % by volume	Not available.		
Flammability limits in air, lower, % by volume	Not available.		
Vapor pressure	Not available.		
Vapor density	Not available.		
Specific gravity	Not available.		
Relative density	Not available.		
Solubility (water)	Not available.		
Auto-ignition temperature	Not available.		
Decomposition temperature	Not available.		
VOC	< 229 g/L		
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 m dioxide and/or low molecular weight	nay yield gaseous nitrogen oxides, carbon monoxide, carbon t hydrocarbons.	
Possibility of hazardous reactions	Will not occur.		
11. Toxicological Inform	ation		
Carcinogenicity	2B) and by the State of Californ both organizations indicate that	carcinogen by the IARC (possibly carcinogenic to humans, Group nia under Proposition 65. In their evaluations of carbon black, t exposure to carbon black, per se, does not occur when it t matrix, specifically, rubber, ink, or paint.	
IARC Monographs: Eviden	ce of carcinogenicity in humans		
Carbon black (CAS 1333- IARC Monographs: Overal	86-4) Inad	lequate data.	
Carbon black (CAS 1333-		Possibly carcinogenic to humans.	

US ACGIH Threshold Limit	Values: A3 carcinogen	
Carbon black (CAS 1333-8	6-4)	A3 Confirmed animal carcinogen with unknown relevance to humans.
Acute toxicity	No information available.	
Serious eye damage/eye irritation	Not available.	
Symptoms and target organs		
Target Organs (NIOSH)		
Carbon black (CAS 1333-8	6-4)	Eyes Respiratory system
Further information		een tested for toxicological effects. health effects and Section 4 for first aid measures.
12. Ecological Informatio	n	
Ecotoxicity	This product has not been test	ed for ecological effects
Aquatic toxicity	This product has not been test	-
Persistence and degradability	Not available.	
13. Disposal Consideration		
Disposal instructions	Dispose of waste material according Regulations. HP's Planet Partners (trademar	rain into sewers/water supplies. ording to Local, State, Federal, and Provincial Environmental (k) supplies recycling program enables simple, convenient recycling let supplies. For more information and to determine if this service
	is available in your location, ple	ease visit http://www.hp.com/recycle.
14. Transport Informatio	n	
Further information	Not a dangerous good under D	OT, 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	on	
US federal regulations	US TSCA 12(b): Does not cont	ain listed chemicals.
CERCLA (Superfund) reportable		
Occupational Safety and Healt	Administration (OSHA)	
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	No	
Section 311 hazardous chemical	No	

2-pyrrolidone (CAS 616-45-5) Listed. Carbon black (CAS 1333-86-4) Listed.			
Regulatory information	Contains components not listed in: Canada, Japan, Korea, New Zealand and Ontario		
Other information	VOC content (less water, less exempt compounds) = $< 884 \text{ g/L}$ (U.S. requirement, not for emissions)		
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	04-Jan-2012		
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	5		
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		

Toxic Substances Control Act

Volatile Organic Compounds

TSCA

VOC