

invent	
1. Product and Compa	ny Identification
Identification of the preparation	CN054Series
Product use	Inkjet printing
Version #	01
Revision date	07-Dec-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	ion
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	Avoid contact with skin Contact with skin may result in irritation.
	2-pyrrolidone Contact with skin may result in irritation.
	<i>Aliphatic diol</i> Contact with skin may result in irritation. <i>Tetraethylene glycol</i> Contact with skin may result in irritation.
Eye contact	<i>2-pyrrolidone</i> Contact with eyes may result in irritation.
	<i>Aliphatic diol</i> Contact with eyes may result in irritation.
	<i>Tetraethylene glycol</i> Contact with eyes may cause irritation.
Inhalation	Inhalation may result in respiratory irritation.
	2-pyrrolidone Inhalation may result in respiratory irritation.
	Aliphatic diol Inhalation may result in respiratory irritation.
	<i>Tetraethylene glycol</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 / Information on Ingredients		

Components		CAS #	Percent
2-pyrrolidone		616-45-5	5 - 7.5
Aliphatic diol		Proprietary	2.5 - 5
Tetraethylene glycol		112-60-7	2.5 - 5
Water		7732-18-5	> 65
Composition comments	This ink supply contains an aqueous ink form This product has been evaluated using criteri 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 soap and water. If irritation persists get medical attention.		
Inhalation	Move to fresh air. If symptoms persist, get m	nedical attention.	
Ingestion	If ingestion of a large amount does occur, se	ek medical attention.	
5. Fire Fighting Measure	5		
Flammable properties	None known.		
Extinguishing media Suitable extinguishing media	For small (incipient) fires, use media such as For large fires use very large (flooding) quan		
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 equipm	nent.	
Environmental precautions	Do not let product enter drains. Do not flush	into surface water or sanita	ry sewer system.
Other information	Soak up with inert absorbent material. Slowly sealed container. Dispose of in compliance w section 13 Disposal considerations.		
7. Handling and Storage			
Handling	Avoid contact with skin, eyes and clothing.		
Storage	Keep away from excessive heat or cold. Keep	o out of the reach of children	n.
8. Exposure Controls / P	ersonal Protection		
Exposure guidelines	Exposure limits have not been established for	r 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. Physical & Chemical Properties		
Appearance	Not available.	
Color	Cyan	
Odor	Not available.	
Odor threshold	Not available.	
Physical state	Liquid	
Form	Not available.	
рН	8.8	
Melting point	Not available.	
Freezing point	Not available.	
Boiling point	Not available.	
Flash point	> 212 °F (> 100 °C) Pensky-Martens Closed Cup US EPA Method 1020	
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	< 291 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 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.
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		
Ecotoxicity	No information available. This product is highly soluble in water.	
Aquatic toxicity	No data available for this product.	
Persistence and degradability Not available.		

13.	Disposal	Considerations
-----	----------	----------------

13. Disposal Considerati	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	on
Further information	Not a dangerous good under DOT, IATA, ADR, IMDG, or RID.
DOT	
Not regulated as dangerous good	S.
ΙΑΤΑ	
Not regulated as dangerous good	S.
IMDG	
Not regulated as dangerous good	S.
RID	
Not regulated as dangerous good	S.
15. Regulatory Informat	tion
US federal regulations	US TSCA 12(b): Does not contain listed chemicals.
CERCLA (Superfund) reportat	ole quantity
Occupational Safety and Heal 29 CFR 1910.1200 hazardous chemical	th Administration (OSHA) 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	
•	lazardous Substances: Listed substance
2-pyrrolidone (CAS 616-	
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	VOC content (less water, less exempt compounds) = < 1148 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	07-Dec-2011
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