

invent	
1. Product and Compa	ny Identification
Identification of the preparation	CN054Series
Product use	Inkjet printing
Version #	01
Revision date	12-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 Identificati	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	Avoid contact with skin Contact with skin may result in irritation.
	<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.
	<i>Aliphatic diol</i> Contact with skin may result in irritation.
	<i>Tetraethylene glycol</i> Contact with skin may result in irritation.
Eye contact	1-(2-hydroxyethyl)-2-pyrrolidone Contact with eyes may result in irritation.
	<i>2-pyrrolidone</i> Contact with eyes may result in irritation.
	Aliphatic diol Contact with eyes may result in irritation.
	<i>Tetraethylene glycol</i> Contact with eyes may cause irritation.
Inhalation	Inhalation may result in respiratory irritation.
	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.
	<i>Tetraethylene glycol</i> 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 Components CAS # Percent 1-(2-hydroxyethyl)-2-pyrrolidone 3445-11-2 < 10 2-pyrrolidone 616-45-5 < 7.5 < 5 Aliphatic diol Proprietary < 2.5 Cyan Colorant Proprietary Tetraethylene glycol 112-60-7 < 5 Water 7732-18-5 > 65 **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

First ald 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.
5. Fire Fighting Measures Flammable properties	S None known.
• •	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	None known.
media	

6. Accidental Release Measures

Hazardous combustion

products

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.
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.

Refer to section 10.

7. Handling and Storage	
Handling	Avoid contact with skin, eyes and clothing.
Storage	Keep away from excessive heat or cold. Keep out of the reach of children.
8. Exposure Controls / P	ersonal Protection
Exposure guidelines	Exposure limits have not been established 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	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.

10. Chemical Stability & Reactivity Information

Not available. < 291 g/L

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

Decomposition temperature

VOC

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.

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 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 recyclin of HP original inkjet and LaserJet supplies. For more information and to determine if this servi is available in your location, please visit http://www.hp.com/recycle.
14. Transport Informatio	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.	
US federal regulations CERCLA (Superfund) reportabl	US TSCA 12(b): Does not contain listed chemicals.
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US federal regulations CERCLA (Superfund) reportabl None Occupational Safety and Health 29 CFR 1910.1200 hazardous chemical Superfund Amendments and R Hazard categories Section 302 extremely hazardous substance Section 311 hazardous chemical State regulations US - Pennsylvania RTK - Ha 2-pyrrolidone (CAS 616-49)	US TSCA 12(b): Does not contain listed chemicals. e quantity h Administration (OSHA) No eauthorization Act of 1986 (SARA) Immediate Hazard - No Delayed Hazard - No Pressure Hazard - No Pressure Hazard - No Reactivity Hazard - No No No No 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,
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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	12-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

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