MATERIAL SAFETY DATA SHEET

1. Product and Company Identification

Material name CN056Series

Version # 03

Issue date 18-Jan-2012 **Revision date** 19-Dec-2013 **Product use** Inkjet printing CAS# Mixture

Company identification **Hewlett-Packard Company**

3000 Hanover Street Palo Alto, CA 94304-1185

United States

Telephone 650-857-5020

Hewlett-Packard health effects line (Toll-free within the US) 1-800-457-4209

(Direct) 1-760-710-0048 **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.

Potential health effects

Skin

Avoid contact with skin Contact with skin may result in irritation. Contact with skin may result in

severe irritation and Contact with skin may result in irritation and Prolonged or repeated contact can result in defatting and drying of the skin which may result in skin irritation and dermatitis

(rash) and Substance can be absorbed through the skin in harmful amounts.

Inhalation Inhalation may result in respiratory irritation. Inhalation may result in respiratory irritation.

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Other hazards Potential routes of overexposure to this product are skin and eve 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

3. Composition / Information on Ingredients

Hazardous components	CAS#	Percent
2-pyrrolidone	616-45-5	< 7.5
Non-hazardous components	CAS#	Percent
Water	7732-18-5	> 65
1-(2-hydroxyethyl)-2-pyrrolidone	3445-11-2	< 10
Aliphatic diol	Proprietary	< 5
Tetraethylene glycol	112-60-7	< 5
Yellow Colorant	Proprietary	< 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).

Material name: CN056Series MSDS US 4. First Aid Measures

General advice No information

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.

InhalationMove to fresh air. If symptoms persist, get medical attention.IngestionIf ingestion of a large amount does occur, seek medical attention.

5. Fire Fighting Measures

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.

Fire fighting

equipment/instructions

Not available.

Specific methodsNone established. **Hazardous combustion**Refer to section 10.

products

6. Accidental Release Measures

Personal precautions Wear appropriate personal protective equipment.

Environmental precautions

Other information

Do not let product enter drains. Do not flush into surface water or sanitary sewer system.

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 clothing.

Storage Keep away from excessive heat or cold. Keep out of the reach of children.

8. Exposure Controls / Personal Protection

Occupational exposure limits

US. AIHA Workplace Environmental Exposure Level (WEEL) Guides

 Components
 Type
 Value

 1,6-hexanediol (CAS
 TWA
 10 mg/m3

Proprietary)

Exposure guidelines Exposure limits have not been established for this product.

Engineering controls Use in a well ventilated area.

Personal protective equipment

General Use personal protective equipment to minimize exposure to skin and eye.

General hygiene
considerations

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

AppearanceNot available.Physical stateLiquid.FormNot available.ColorYellowOdorNot available.pH8.5 - 9.1

Material name: CN056Series MSDs us

12094 Version #: 03 Revision date: 19-Dec-2013 Issue date: 18-Jan-2012

8.8 - 9.1

Vapor pressureNot available.Boiling pointNot available.Melting point/Freezing pointNot available.Solubility (water)Not available.Specific gravityNot available.

Flash point > 212.00 °F (> 100.00 °C) Pensky-Martens Closed Cup US EPA Method 1020

Viscosity 3.2 - 3.3 cP **VOC** < 297 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.

Conditions to avoid No information available

Incompatible materials Incompatible with strong bases and oxidizing agents.

Hazardous decomposition

Upon decomposition, this product may yield gaseous nitrogen oxides, carbon monoxide, carbon

dioxide and/or low molecular weight hydrocarbons.

Possibility of hazardous

reactions

products

Will not occur.

11. Toxicological Information

Toxicological data

Toxicological data		Tool Boards
Components	Species	Test Results
2-pyrrolidone (CAS 616-45-5	5)	
Acute		
Oral		
LD50	Guinea pig	6500 mg/kg
	Rat	6500 mg/kg
Aliphatic diol (CAS Proprieta	ry)	
Acute		
Dermal		
LD50	Rabbit	> 10000 mg/kg
Oral		
LD50	Rat	3730 mg/kg
Other		
LD50	Mouse	1738 mg/kg
Tetraethylene glycol (CAS 1:	12-60-7)	
Acute		
Dermal		
LD50	Rabbit	22570 mg/kg
Oral		
LD50	Rat	32700 mg/kg
		29 g/kg

CarcinogenicityNo data available.Serious eye damage/eyeNot 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

irritation

Aquatic toxicity No data available for this product.

Material name: CN056Series MSDS US

Ecotoxicological data

Components Species Test Results

2-pyrrolidone (CAS 616-45-5)

Aquatic

Crustacea EC50 Water flea (Daphnia pulex) 13.21 mg/l, 48 hours

Ecotoxicity No information available.

This product is highly soluble in water.

Persistence and degradability Not available.

Bioaccumulation / Accumulation

Bioaccumulative potential

Octanol/water partition coefficient log Kow

2-pyrrolidone -0.85 Aliphatic diol -0.106

Partition coefficient

2-pyrrolidone -0.85 Aliphatic diol -0.106

13. Disposal Considerations

Disposal instructionsDo 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

DOT

Not regulated as dangerous goods.

IATA

Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.

RID

Not regulated as dangerous goods.

Further information Not a dangerous good under DOT, IATA, ADR, IMDG, or RID.

15. Regulatory Information

US TSCA 12(b): Does not contain listed chemicals.

Drug Enforcement Administration (DEA). List 2, Essential Chemicals (21 CFR 1310.02(b) and 1310.04(f)(2) and Chemical Code Number

Not listed.

Drug Enforcement Administration (DEA). List 1 & 2 Exempt Chemical Mixtures (21 CFR 1310.12(c))

Not regulated.

DEA Exempt Chemical Mixtures Code Number

Not regulated.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

CERCLA (Superfund) reportable quantity

None

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories Immediate Hazard - No

Delayed Hazard - No Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No

Material name: CN056Series MSDS US

SARA 302 Extremely hazardous substance

No

SARA 311/312 Hazardous chemical

No I

Other information

VOC content (less water, less exempt compounds) = < 1141 g/L (U.S. requirement, not for

emissions)

VOC data based on formulation (Organic compounds minus solids)

Other regulations

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.

State regulations

US. Massachusetts RTK - Substance List

2-pyrrolidone (CAS 616-45-5)

US. Pennsylvania RTK - Hazardous Substances

2-pyrrolidone (CAS 616-45-5)

Listed.

US. Rhode Island RTK

Not regulated.

16. Other Information

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.

Other information This MSDS was prepared in accordance with USA OSHA Hazard Communications regulation (29

CFR 1910.1200).

Issue date 18-Jan-2012

This data sheet contains changes from the previous version in section(s):

1. Product and Company Identification: Alternate Trade Names

Hazards Identification: Other hazards

9. Physical & Chemical Properties: Other information

Manufacturer information

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(Direct) 1-503-494-7199

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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

Material name: CN056Series MSDS US