

MATERIAL SAFETY DATA SHEET

1. Product and Company Identification

Identification of the

preparation

CN046Series

Product use Inkiet printing

Version # 02

Revision date 21-Oct-2012 CAS# Mixture

Company identification Hewlett-Packard Company

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United States

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

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.

Tetraethylene glycol

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.

Tetraethylene glycol

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.

Tetraethylene glycol

Inhalation may result in respiratory irritation.

Material name: CN046Series MSDS US 1/6 **Ingestion** *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

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.

ponents	Perce
-hydroxyethyl)-2-pyrrolidone	< 10
rrolidone	< 7.
natic diol	< 5
n Colorant	< 2.
aethylene glycol	< 5
er	> 65
er nposition comments	0.120

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 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.

Communication Standard).

General advice No additional information

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.

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

products

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.

Other informationSoak 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.

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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

Exposure guidelines Exposure limits have not been established for 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

Appearance Not available.

Color Cyan

OdorNot available.Odor thresholdNot available.Physical stateLiquid

Form Not available.

pH 8.8

Melting pointNot available.Freezing pointNot available.Boiling pointNot 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. Not available. **Auto-ignition temperature** Not available. **Decomposition temperature** VOC < 291 q/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.

Material name: CN046Series MSDS US

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

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

Further information

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

DOT

Not regulated as dangerous goods.

IATA

Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.

RID

Not regulated as dangerous goods.

15. Regulatory Information

US federal regulations

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

DEA Exempt Chemical Mixtures Code Number

Not regulated.

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

Not regulated.

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

Not listed.

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

Not regulated.

CERCLA (Superfund) reportable quantity

None

Occupational Safety and Health Administration (OSHA)

29 CFR 1910.1200

hazardous chemical

Superfund Amendments and Reauthorization Act of 1986 (SARA)

No

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

No

chemical

State regulations

US. Massachusetts RTK - Substance List

2-pyrrolidone (CAS 616-45-5)

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US. New Jersey Worker and Community Right-to-Know Act

Not regulated.

US. Pennsylvania RTK - Hazardous Substances

2-pyrrolidone (CAS 616-45-5) Listed.

US. Rhode Island RTK

Not regulated.

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 21-Oct-2012

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

Product and Company Identification: Alternate Trade Names Composition / Information on Ingredients: Disclosure Overrides

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

Material name: CN046Series MSDS US

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

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