

## MATERIAL SAFETY DATA SHEET

# 1. Product and Company Identification

**Identification of the** 

preparation

CN059Series

**Product use** Inkjet printing

Version # 01

**Revision date** 18-Jan-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: CN059Series MSDS US 1/5 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

Carcinogenicity

None known.

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.

| Components                       |  | CAS #          | Percent  |
|----------------------------------|--|----------------|----------|
| 1-(2-hydroxyethyl)-2-pyrrolidone |  | 3445-11-2      | < 10     |
| 2-pyrrolidone                    |  | 616-45-5       | <7.5     |
| Aliphatic diol                   |  | Proprietary    | < 5      |
| Magenta Colorant                 |  | Proprietary    | < 2.5    |
| Tetraethylene glycol             |  | 112-60-7       | < 5      |
| Water                            |  | 7732-18-5      | > 65     |
| Water  Composition comments      | This ink supply contains an aqueous inl<br>This product has been evaluated using<br>Communication Standard). | k formulation. | 1200 (Ha |

### 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.

**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 None known.

**Extinguishing media** 

Suitable extinguishing

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

media

None known.

**Specific methods** None 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.

Material name: CN059Series MSDS US 2/5

7. Handling and Storage

Handling Avoid contact with skin, eyes and clothing.

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

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

Not available. **Appearance** Color Magenta Not available. Odor **Odor threshold** Not available. **Physical state** Liquid

Not available. **Form** 

8.8 рH

**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, Not available. upper, % by volume

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 < 297 q/L

## 10. Chemical Stability & Reactivity Information

Chemical stability Stable under recommended storage conditions. Incompatible with strong bases and oxidizing agents. **Incompatible materials** 

**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.

This ink formulation has not been tested for toxicological effects. **Further information** 

Refer to Section 2 for potential health effects and Section 4 for first aid measures.

Material name: CN059Series 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 TSCA** 12(b): Does not contain listed chemicals.

#### **CERCLA (Superfund) reportable quantity**

None

### Occupational Safety and Health Administration (OSHA)

**29 CFR 1910.1200** No

hazardous chemical

### 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

Section 302 extremely

No

hazardous substance Section 311 hazardous

No

chemical

### State regulations

### US - Pennsylvania RTK - Hazardous Substances: Listed substance

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

**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) = < 1115 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).

Material name: CN059Series MSDS US

**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.

18-Jan-2012 Issue date

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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

Superfund Amendments and Reauthorization Act of 1986 **SARA** 

**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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