



# MATERIAL SAFETY DATA SHEET

## 1. Product and Company Identification

Identification of the preparation	CN049Series
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 Identification

Emergency overview	Contact with skin and eyes may result in irritation. Do not breathe Vapor.
Acute health effects	
Skin contact	Any potential hazards are presumed to be due to exposure to the components. <i>2-pyrrolidone</i> Contact with skin may result in irritation. <i>Co-Solvent</i> Contact with skin may result in irritation.
Eye contact	<i>2-pyrrolidone</i> Contact with eyes may result in irritation. <i>Co-Solvent</i> Contact with eyes may result in irritation.
Inhalation	Avoid breathing vapors or mists of this product. <i>2-pyrrolidone</i> Inhalation may result in respiratory irritation. <i>Co-Solvent</i> Inhalation may result in respiratory irritation.
Ingestion	<i>2-pyrrolidone</i> Ingestion may result in nausea, vomiting and diarrhea. <i>Co-Solvent</i> Swallowing large amounts may cause digestive discomfort.
Potential health effects	
Routes of exposure	Potential routes of exposure to this product are skin and eye contact, ingestion, and inhalation.  Complete toxicity data are not available for this specific formulation
Chronic health effects	None known.
Carcinogenicity	Carbon black is classified by the IARC as a Group 2B carcinogen (the substance is possibly carcinogenic to humans). Carbon black in this preparation, due to its bound form, does not present this carcinogenic risk. None of the other ingredients in this preparation are classified as carcinogens according to ACGIH, EU, IARC, MAK, NTP or OSHA.

### 3. Composition / Information on Ingredients

Components	CAS #	Percent
2-pyrrolidone	616-45-5	10 - 15
Co-Solvent	Proprietary	7.5 - 10
Carbon black	1333-86-4	2.5 - 5
Water	7732-18-5	> 70

#### 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).

Carbon black is present only in a bound form in this preparation.

### 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. Get medical attention if irritation develops or persists.

##### Inhalation

Remove 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 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 methods

None established.

#### Hazardous combustion products

Refer to section 10.

### 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.

#### Methods for containment

Dike the spilled material, where this is possible. Absorb with inert absorbent such as dry clay, sand or diatomaceous earth, commercial sorbents, or recover using pumps.

#### Methods for cleaning up

Soak up with inert absorbent material.

#### 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.

### 7. Handling and Storage

#### Handling

Avoid contact with skin, eyes and clothing.

#### Storage

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

### 8. Exposure Controls / Personal Protection

#### Occupational exposure limits

##### ACGIH

##### Components

##### Type

##### Value

Carbon black (1333-86-4)

TWA

3.5000 mg/m3

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TWA

3.5000 mg/m3

**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**

Black.

**Odor**

Not available.

**Odor threshold**

Not available.

**Physical state**

Liquid

**Form**

Not available.

**pH**

7.5

**Melting point**

Not available.

**Freezing point**

Not available.

**Boiling point**

Not available.

**Flash point**

&gt; 230 °F (&gt; 110 °C) Pensky-Martens Closed Cup

**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**

&lt; 229 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****Carcinogenicity**

Carbon black is classified as a carcinogen by the IARC (possibly carcinogenic to humans, Group 2B) and by the State of California under Proposition 65. In their evaluations of carbon black, both organizations indicate that exposure to carbon black, per se, does not occur when it remains bound within a product matrix, specifically, rubber, ink, or paint.

**ACGIH Carcinogens**

Carbon black (CAS 1333-86-4)

A4 Not classifiable as a human carcinogen.

**IARC Monographs. Overall Evaluation of Carcinogenicity**

Carbon black (CAS 1333-86-4)

2B Possibly carcinogenic to humans.

## IARC Monographs: Evidence of carcinogenicity in humans

Carbon black (CAS 1333-86-4)

Inadequate data.

**Acute toxicity** No information available.

**Serious eye damage/eye irritation** Not available.

### Symptoms and target organs

#### Target Organs (NIOSH)

Carbon black (CAS 1333-86-4)

Eyes

Respiratory system

**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.

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## 12. Ecological Information

**Ecotoxicity** This product has not been tested for ecological effects.

**Aquatic toxicity** This product has not been tested for ecological effects.

**Persistence and degradability** Not available.

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## 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>.

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## 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.

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## 15. Regulatory Information

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

### CERCLA (Superfund) reportable quantity

None

### Occupational Safety and Health Administration (OSHA)

**29 CFR 1910.1200 hazardous chemical** No

### 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 hazardous substance** No

**Section 311 hazardous chemical** No

### State regulations

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

2-pyrrolidone (CAS 616-45-5)

Listed.

<b>Regulatory information</b>	Contains components not listed in: Canada, Japan, Korea, New Zealand and Ontario
<b>Other information</b>	VOC content (less water, less exempt compounds) = < 884 g/L (U.S. requirement, not for emissions)

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## 16. Other Information

<b>Other information</b>	This MSDS was prepared in accordance with USA OSHA Hazard Communications regulation (29 CFR 1910.1200).
<b>HMIS® ratings</b>	Health: 1 Flammability: 1 Physical hazard: 0
<b>NFPA ratings</b>	Health: 1 Flammability: 1 Instability: 0
<b>Disclaimer</b>	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.
<b>Issue date</b>	07-Dec-2011
<b>Manufacturer information</b>	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

<b>ACGIH</b>	American Conference of Governmental Industrial Hygienists
<b>CAS</b>	Chemical Abstracts Service
<b>CERCLA</b>	Comprehensive Environmental Response Compensation and Liability Act
<b>CFR</b>	Code of Federal Regulations
<b>COC</b>	Cleveland Open Cup
<b>DOT</b>	Department of Transportation
<b>EPCRA</b>	Emergency Planning and Community Right-to-Know Act (aka SARA)
<b>IARC</b>	International Agency for Research on Cancer
<b>NIOSH</b>	National Institute for Occupational Safety and Health
<b>NTP</b>	National Toxicology Program
<b>OSHA</b>	Occupational Safety and Health Administration
<b>PEL</b>	Permissible Exposure Limit
<b>RCRA</b>	Resource Conservation and Recovery Act
<b>REC</b>	Recommended
<b>REL</b>	Recommended Exposure Limit
<b>SARA</b>	Superfund Amendments and Reauthorization Act of 1986
<b>STEL</b>	Short-Term Exposure Limit
<b>TCLP</b>	Toxicity Characteristics Leaching Procedure
<b>TLV</b>	Threshold Limit Value
<b>TSCA</b>	Toxic Substances Control Act
<b>VOC</b>	Volatile Organic Compounds